AFMSS

Application for Permit to Drill

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

APD Package Report

Date Printed: 05/19/2025 03:34 PM

APD ID: 10400100868
APD Received Date: 09/23/2024 12:52 PM
Operator: XTO PERMIAN OPERATING LLC

Well Status: AAPD
Well Name: POKER LAKE UNIT 18-30 BL
Well Number: 203H

APD Package Report Contents

- Form 3160-3 : Error Generating Form

- 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: 1 file(s)
  -- Casing Design Assumptions and Worksheet(s): 1 file(s)
  -- Hydrogen sulfide drilling operations plan: 1 file(s)
  -- Proposed horizontal/directional/multi-lateral plan submission: 2 file(s)
  -- Other Facets: 4 file(s)
  -- Other Variances: 4 file(s)

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

- PWD Report
- PWD Attachments
  -- None

- Bond Report
- Bond Attachments
  -- None

Form 3160-3
(October 2024)

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2027

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.

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.

8. Lease Name and Well No.

2. Name of Operator

9. API Well No.
30-015-57274

3a. Address	3b. Phone No. *(include area code)*	10. Field and Pool, or Exploratory

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

At surface

At proposed prod. zone

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

14. Distance in miles and direction from nearest town or post office*	12. County or Parish	13. State

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file

21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration

24. Attachments

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

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

25. Signature	Name *(Printed/Typed)*	Date

Title

Approved by *(Signature)*	Name *(Printed/Typed)*	Date

Title	Office

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

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

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 05/19/2025

INSTRUCTIONS

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

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

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

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

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

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

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

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

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

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

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

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

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

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

Approval Date: 05/19/2025

Additional Operator Remarks

Location of Well

0. SHL: NWNE / 265 FNL / 2305 FEL / TWSP: 25S / RANGE: 30E / SECTION: 18 / LAT: 32.136718 / LONG: -103.919543 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 0 FSL / 1475 FEL / TWSP: 25S / RANGE: 30E / SECTION: 19 / LAT: 32.122837 / LONG: -103.916837 (TVD: 10072 feet, MD: 15800 feet)

PPP: NWNE / 100 FNL / 1474 FEL / TWSP: 25S / RANGE: 30E / SECTION: 18 / LAT: 32.137172 / LONG: -103.916859 (TVD: 10072 feet, MD: 10548 feet)

BHL: SWNE / 2646 FNL / 1474 FEL / TWSP: 25S / RANGE: 30E / SECTION: 30 / LAT: 32.100953 / LONG: -103.916803 (TVD: 10072 feet, MD: 23007 feet)

BLM Point of Contact

Name: MARIAH HUGHES
Title: Land Law Examiner
Phone: (575) 234-5972
Email: MHUGHES@BLM.GOV

AFMSS

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

Operator Certification Data Report

05/19/2025

Operator

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: SIVAPRAKASH SELVAM **Signed on:** 09/23/2024

Title: Regulatory Clerk

Street Address: 22777 SPRINGWOODS VILLAGE PARKWAY

City: SPRING **State:** TX **Zip:** 77389

Phone: (720)539-1673

Email address: SIVAPRAKASH.SELVAM1@EXXONMOBIL.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

AFMSS

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

Application Data

05/19/2025

APD ID: 10400100868 **Submission Date:** 09/23/2024

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 18-30 BD **Well Number:** 203H

Well Type: OIL WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - General

APD ID: 10400100868 **Tie to previous NOS?** N **Submission Date:** 09/23/2024

BLM Office: Carlsbad **User:** SIVAPRAKASH SELVAM **Title:** Regulatory Clerk

Federal/Indian APD: FED **Is the first lease penetrated for production Federal or Indian?** FED

Lease number: NMLC065705B **Lease Acres:**

Surface access agreement in place? **Allotted?** **Reservation:**

Agreement in place? YES **Federal or Indian agreement:** FEDERAL

Agreement number: NMNM71016X

Agreement name: POKER LAKE UNIT

Keep application confidential? Y

Permitting Agent? NO **APD Operator:** XTO PERMIAN OPERATING LLC

Operator letter of

Operator Info

Operator Organization Name: XTO PERMIAN OPERATING LLC

Operator Address: 6401 HOLIDAY HILL ROAD BLDG 5 **Zip:** 79707

Operator PO Box:

Operator City: MIDLAND **State:** TX

Operator Phone: (432)683-2277

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO **Master Development Plan name:**

Well in Master SUPO? NO **Master SUPO name:**

Well in Master Drilling Plan? NO **Master Drilling Plan name:**

Well Name: POKER LAKE UNIT 18-30 BD **Well Number:** 203H **Well API Number:**

Field/Pool or Exploratory? Field and Pool **Field Name:** PIERCE CROSSING **Pool Name:** BONE SPRING EAST

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 18-30 BD **Well Number:** 203H

Is the proposed well in an area containing other mineral resources? USEABLE WATER,NATURAL GAS,OIL

Is the proposed well in a Helium production area? N **Use Existing Well Pad?** Y **New surface disturbance?** N

Type of Well Pad: MULTIPLE WELL **Multiple Well Pad Name:** POKER LAKE UNIT 18-19 18-30 BD **Number:** A

Well Class: HORIZONTAL **Number of Legs:** 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: **Distance to nearest well:** 30 FT **Distance to lease line:** 265 FT

Reservoir well spacing assigned acres Measurement: 400 Acres

Well plat: XTO_POKER_LAKE_UNIT_18_30_BD_203H_C_102_FINAL_20250307074351.pdf

Well work start Date: 10/07/2025 **Duration:** 45 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 **Vertical Datum:** NAVD88

Survey number: **Reference Datum:** GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
SHL Leg #1	265	FNL	2305	FEL	25S	30E	18	Aliquot NWNE	32.136718	-103.919543	EDDY	NEW MEXICO	NEW MEXICO	F	NMLC065705B	3179			Y
KOP Leg #1	265	FNL	2305	FEL	25S	30E	18	Aliquot NWNE	32.136718	-103.919543	EDDY	NEW MEXICO	NEW MEXICO	F	NMLC065705B	-6177	9423	9356	Y

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 18-30 BD **Well Number:** 203H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
PPP Leg #1-1	100	FNL	1474	FEL	25S	30E	18	Aliquot NWNE	32.137172	-103.916859	EDDY	NEW MEXICO	NEW MEXICO	F	NMLC065705B	-6893	10548	10072	Y
PPP Leg #1-2	0	FSL	1475	FEL	25S	30E	19	Aliquot NWNE	32.122837	-103.916837	EDDY	NEW MEXICO	NEW MEXICO	F	NMLC070341	-6893	15800	10072	Y
EXIT Leg #1	2556	FNL	1474	FEL	25S	30E	30	Aliquot SWNE	32.1012	-103.916804	EDDY	NEW MEXICO	NEW MEXICO	F	NMLC070125	-6893	22917	10072	Y
BHL Leg #1	2646	FNL	1474	FEL	25S	30E	30	Aliquot SWNE	32.100953	-103.916803	EDDY	NEW MEXICO	NEW MEXICO	F	NMLC070125	-6893	23007	10072	Y

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

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name	
30-015-	[96473]	PIERCE CROSSING, BONE SPRING, EAST	
Property Code	Property Name		Well Number
	POKER LAKE UNIT 18-30 BD		203H
OGRID No.	Operator Name		Ground Level Elevation
373075	XTO PERMIAN OPERATING, LLC.		3,179'
Surface Owner: ☐State ☐Fee ☐Tribal ☒Federal		Mineral Owner: ☐State ☐Fee ☐Tribal ☒Federal	

Surface Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	18	25S	30E		265 FNL	2,305 FEL	32.136718	-103.919543	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
G	30	25S	30E		2,646 FNL	1,474 FEL	32.100953	-103.916803	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
400.00	Infill		no	U
Order Numbers.			Well Setbacks are under Common Ownership: ☒Yes ☐No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	18	25S	30E		265 FNL	2,305 FEL	32.136718	-103.919543	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	18	25S	30E		100 FNL	1,474 FEL	32.137172	-103.916859	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
G	30	25S	30E		2,556 FNL	1,474 FEL	32.101200	-103.916804	EDDY

Unitized Area of Area of Interest	Spacing Unit Type : ☒Horizontal ☐Vertical	Ground Elevation
NMNM-071016X		3,179'

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.

9/23/24

Signature Date

Adrian Baker

Printed Name

adrian.baker@exxonmobil.com

Email Address

SURVEYOR CERTIFICATIONS

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

MARK DILLON HARP NEW MEXICO 23786 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

MARK DILLON HARP 23786

Certificate Number

9/12/2024

Date of Survey

DN 618.013003.32-12

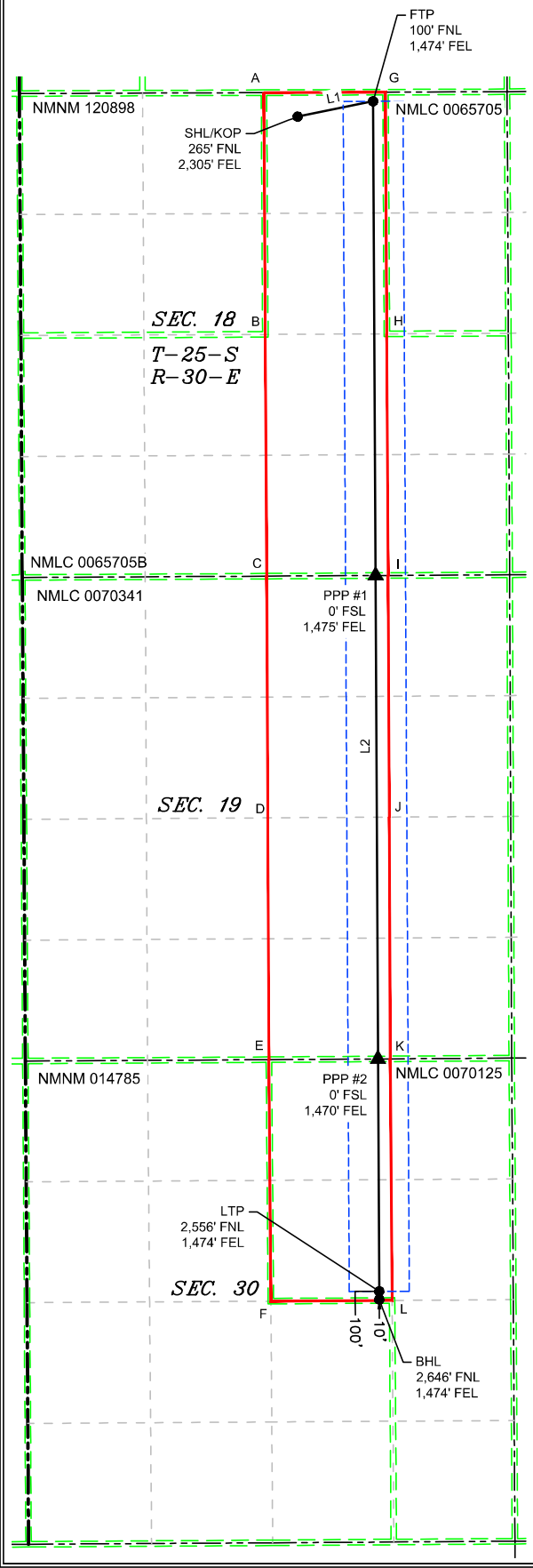
Note: No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

P:\618.013 XTO Energy – NM\003 Poker Lake Unit\.32 – PLU 18-19,18-30 BD– EDDY\Wells\-12 – PLU 18-30 BD 203H\DWG\203H C-102.dwg

ACREAGE DEDICATION PLATS

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

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



LEGEND

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

LINE TABLE		
LINE	AZIMUTH	LENGTH
L1	078°32'28"	847.09'
L2	179°42'13"	13,175.73'

COORDINATE TABLE

SHL/KOP (NAD 83 NME)			**SHL/KOP (NAD 27 NME)**		
Y =	413,719.6	N	Y =	413,661.0	N
X =	669,417.3	E	X =	628,232.8	E
LAT. =	32.136718	°N	LAT. =	32.136593	°N
LONG. =	103.919543	°W	LONG. =	103.919058	°W
FTP (NAD 83 NME)			**FTP (NAD 27 NME)**		
Y =	413,887.9	N	Y =	413,829.3	N
X =	670,247.5	E	X =	629,063.0	E
LAT. =	32.137172	°N	LAT. =	32.137047	°N
LONG. =	103.916859	°W	LONG. =	103.916374	°W
PPP #1 (NAD 83 NME)			**PPP #1 (NAD 27 NME)**		
Y =	408,673.3	N	Y =	408,614.8	N
X =	670,274.4	E	X =	629,089.7	E
LAT. =	32.122837	°N	LAT. =	32.122712	°N
LONG. =	103.916837	°W	LONG. =	103.916353	°W
PPP #2 (NAD 83 NME)			**PPP #2 (NAD 27 NME)**		
Y =	403,358.2	N	Y =	403,299.9	N
X =	670,301.8	E	X =	629,117.0	E
LAT. =	32.108226	°N	LAT. =	32.108101	°N
LONG. =	103.916815	°W	LONG. =	103.916331	°W
LTP (NAD 83 NME)			**LTP (NAD 27 NME)**		
Y =	400,802.4	N	Y =	400,744.1	N
X =	670,315.0	E	X =	629,130.2	E
LAT. =	32.101200	°N	LAT. =	32.101075	°N
LONG. =	103.916804	°W	LONG. =	103.916321	°W
BHL (NAD 83 NME)			**BHL (NAD 27 NME)**		
Y =	400,712.4	N	Y =	400,654.1	N
X =	670,315.7	E	X =	629,130.8	E
LAT. =	32.100953	°N	LAT. =	32.100828	°N
LONG. =	103.916803	°W	LONG. =	103.916320	°W
CORNER COORDINATES (NAD 83 NME)					
A - Y =	413,983.4	N	A - X =	669,047.2	E
B - Y =	411,325.1	N	B - X =	669,062.3	E
C - Y =	408,666.7	N	C - X =	669,077.3	E
D - Y =	406,009.3	N	D - X =	669,089.4	E
E - Y =	403,350.7	N	E - X =	669,101.5	E
F - Y =	400,695.1	N	F - X =	669,122.6	E
G - Y =	413,988.4	N	G - X =	670,384.1	E
H - Y =	411,331.2	N	H - X =	670,398.7	E
I - Y =	408,674.1	N	I - X =	670,413.3	E
J - Y =	406,017.1	N	J - X =	670,425.2	E
K - Y =	403,359.1	N	K - X =	670,436.7	E
L - Y =	400,703.2	N	L - X =	670,456.1	E
CORNER COORDINATES (NAD 27 NME)					
A - Y =	413,924.8	N	A - X =	627,862.8	E
B - Y =	411,266.5	N	B - X =	627,877.7	E
C - Y =	408,608.2	N	C - X =	627,892.7	E
D - Y =	405,950.8	N	D - X =	627,904.7	E
E - Y =	403,292.3	N	E - X =	627,916.7	E
F - Y =	400,636.8	N	F - X =	627,937.7	E
G - Y =	413,929.8	N	G - X =	629,199.6	E
H - Y =	411,272.6	N	H - X =	629,214.2	E
I - Y =	408,615.6	N	I - X =	629,228.6	E
J - Y =	405,958.7	N	J - X =	629,240.5	E
K - Y =	403,300.7	N	K - X =	629,251.8	E
L - Y =	400,645.0	N	L - X =	629,271.2	E

DN 618.013003.32-12

P:\618.013 XTO Energy - NM\003 Poker Lake Unit\.32 - PLU 18-19,18-30 BD- EDDY\Wells\-12 - PLU 18-30 BD 203H\DWG\203H C-102.dwg

APD ID: 10400100868 **Submission Date:** 09/23/2024

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 18-30 BD **Well Number:** 203H

Well Type: OIL 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
15648124	QUATERNARY	3179	0	0	ALLUVIUM	USEABLE WATER	N
15648125	RUSTLER	2467	712	712	ANHYDRITE, SANDSTONE	USEABLE WATER	N
15648126	SALADO	2037	1142	1142	SALT	NONE	N
15648127	BASE OF SALT	-140	3319	3319	SALT	NONE	N
15648128	DELAWARE	-359	3538	3538	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced water	N
15648129	BRUSHY CANYON	-2526	5705	5705	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced water	N
15648130	BONE SPRING	-4129	7308	7308	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced water	Y
15648131	BONE SPRING 1ST	-4888	8067	8067	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced water	Y
15648132	BONE SPRING 2ND	-5337	8516	8516	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced water	Y
15648134	BONE SPRING 3RD	-6207	9386	9386	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y
15648135	BONE SPRING 3RD	-6582	9761	9761	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M **Rating Depth:** 10072

Equipment: Once the permanent WH is installed on the surface casing, the BOP equipment will have a 5M Hydril Annular & a 10M Triple Ram BOP. XTO will use a Multi-Bowl System which is attached.
Requesting Variance? YES

Variance request: A variance is requested to allow use of a flex hose. See attached. XTO requests a variance to be able to batch drill this well if necessary. XTO requests 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.

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 18-30 BD **Well Number:** 203H

Choke Diagram Attachment:

POKER_LAKE_UNIT_18_19___18_30_BD_10MCM_20250307081702.pdf

BOP Diagram Attachment:

POKER_LAKE_UNIT_18_19___18_30_BD_5M10M_BOP_20250307081725.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	12.25	9.625	NEW	API	N	0	812	0	812	3179	2367	812	J-55	40	BUTT	7.75	1.73	DRY	19.4	DRY	19.4
2	INTERMEDIATE	8.75	7.625	NEW	API	Y	0	9223	0	9157	3179	-5978	9223	L-80	29.7	FJ	2.48	2.2	DRY	2.62	DRY	2.62
3	PRODUCTION	6.75	5.5	NEW	NON API	Y	0	23007	0	10072	3179	-6893	23007	P-110	20	OTHER - TPN/Wedge 441	2.08	1.05	DRY	2.15	DRY	2.15

Casing Attachments

Casing ID: 1 **String** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 18-30 BD **Well Number:** 203H

Casing Attachments

Casing ID: 2 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing ID: 3 **String** PRODUCTION

Inspection Document:

Spec Document:

TPN__5.500_20.00_0.361_P110_ICY_20250307082342.pdf

Wedge_441__5.500__20.00_0.361_P110_ICY_20250307082342.pdf

Tapered String Spec:

POKER_LAKE_UNIT_18_30_BD_203H_CSG_20250307082416.pdf

Casing Design Assumptions and Worksheet(s):

POKER_LAKE_UNIT_18_30_BD_203H_CSG_20250307082445.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	812	170	1.87	10.5	317.9	100	EconoCem-HLTRRC	NA
SURFACE	Tail		0	812	130	1.35	14.8	175.5	100	Class C	2% CaCl
INTERMEDIATE	Lead		0	5705	320	1.35	14.8	432	100	Class C	NA
INTERMEDIATE	Tail		5705	9223	640	1.33	14.8	851.2	100	Class C	NA

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 18-30 BD **Well Number:** 203H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead		8923	9423	20	2.69	11.5	53.8	30	NeoCem	NA
PRODUCTION	Tail		9423	23007	970	1.51	13.2	1464.7	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 43 CFR 3172:

Diagram of the equipment for the circulating system in accordance with 43 CFR 3172:

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
0	812	WATER-BASED MUD	8.4	8.9							
812	9223	OTHER : Saturated Salt for Salt Interval/Direct Emulsion	9	9.5							
9223	23007	OIL-BASED MUD	10.2	10.7							

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 18-30 BD **Well Number:** 203H

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: 5604 **Anticipated Surface Pressure:** 3388

Anticipated Bottom Hole Temperature(F): 185

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_20240827051401.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

POKER_LAKE_UNIT_18_30_BD_203H_DD_20240906090911.pdf

Poker_Lake_Unit_18_30_BD_203H_Formation___Section_and_Plan_View_1__20250310142217.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

POKER_LAKE_UNIT_18_19___18_30_BD_MBS_9.625_x_7.625_3String_20240827064007.pdf

POKER_LAKE_UNIT_18_30_BD_203H_CMT_20240906090847.pdf

H2S_Diagram_POKER_LAKE_UNIT_18_19___18_30_BD_20250307085032.pdf

POKER_LAKE_UNIT_18_19___18_30_BD_NGMP_Form_20250311143250.pdf

Other Variance request(s)?: Y

Other Variance attachment:

POKER_LAKE_UNIT_18_19___18_30_BD__OLCV_20240905101924.pdf

BOP_Break_Test_Variance_20240827064431.pdf

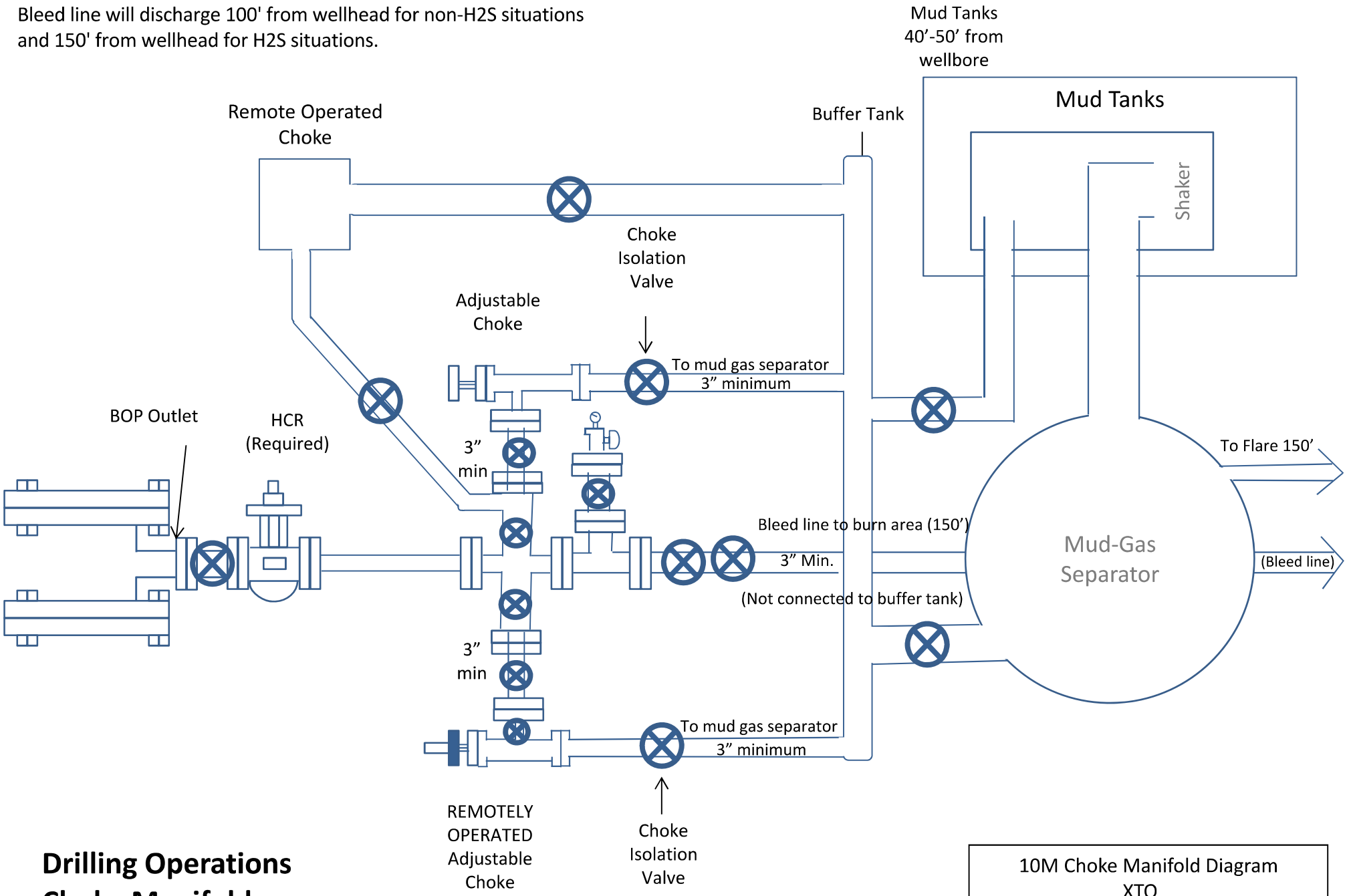
Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 18-30 BD **Well Number:** 203H

Spudder_Rig_Request_20240827064424.pdf

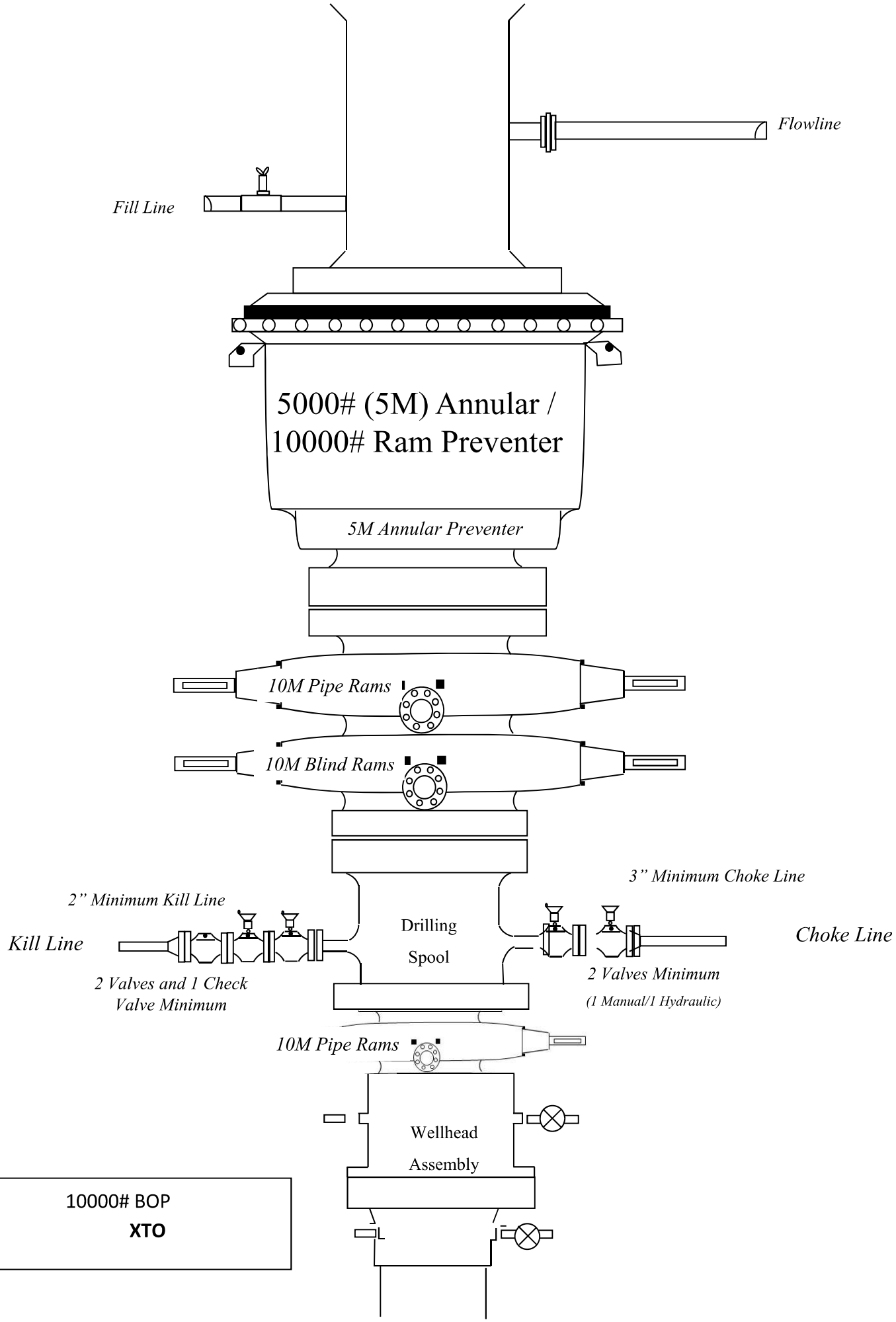
Updated_Flex_Hose_20240827064426.pdf

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



Drilling Operations
Choke Manifold
10M Service

10M Choke Manifold Diagram
XTO



10000# BOP

XTO

Tenaris

TenarisHydril Wedge 441®

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

Outside Diameter	5.500 in.	**Wall Thickness**	0.361 in.	**Grade**	P110-ICY
Min. Wall Thickness	87.50 %	**Pipe Body Drift**	API Standard	**Type**	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry				Performance	
Nominal OD	5.500 in.	**Wall Thickness**	0.361 in.	**Body Yield Strength**	729 x1000 lb
Nominal Weight	20.00 lb/ft	**Plain End Weight**	19.83 lb/ft	**Min. Internal Yield Pressure**	14,360 psi
Drift	4.653 in.	**OD Tolerance**	API	**SMYS**	125,000 psi
Nominal ID	4.778 in.			**Collapse Pressure**	12,300 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	5.852 in.	**Tension Efficiency**	81.50 %	**Minimum**	15,000 ft-lb
Coupling Length	8.714 in.	**Joint Yield Strength**	594 x1000 lb	**Optimum**	16,000 ft-lb
Connection ID	4.778 in.	**Internal Pressure Capacity**	14,360 psi	**Maximum**	19,200 ft-lb
Make-up Loss	3.780 in.	**Compression Efficiency**	81.50 %		
Threads per inch	3.40	**Compression Strength**	594 x1000 lb	**Operation Limit Torques**	
Connection OD Option	Regular	**Max. Allowable Bending**	84.76 °/100 ft	**Operating Torque**	36,000 ft-lb
		External Pressure Capacity	12,300 psi	**Yield Torque**	42,000 ft-lb
				Buck-On	
				Minimum	19,200 ft-lb
				Maximum	20,700 ft-lb

Notes

This connection is fully interchangeable with:
Wedge 441® - 5.5 in. - 0.304 (17.00) in. (lb/ft)
Wedge 461® - 5.5 in. - 0.304 (17.00) / 0.361 (20.00) / 0.415 (23.00) in. (lb/ft)
Connections with Dopeless® Technology are fully compatible with the same connection in its doped version

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

Tenaris

TPN™

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

Customer	XTO ENERGY INC.	**Wall Thickness**	0.361 in.	**Grade**	P110-ICY
Outside Diameter	5.500 in.	**Pipe Body Drift**	API Standard	**Type**	Casing
Min. Wall Thickness	87.50 %				
Connection OD Option	REGULAR				

Pipe Body Data

Geometry				Performance	
Nominal OD	5.500 in.	**Wall Thickness**	0.361 in.	**Body Yield Strength**	729 x1000 lb
Nominal Weight	20.00 lb/ft	**Plain End Weight**	19.83 lb/ft	**Min. Internal Yield Pressure**	14,360 psi
Drift	4.653 in.	**OD Tolerance**	API	**SMYS**	125,000 psi
Nominal ID	4.778 in.			**Collapse Pressure**	12,300 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	6.300 in.	**Tension Efficiency**	100 %	**Minimum**	21,100 ft-lb
Coupling Length	8.408 in.	**Joint Yield Strength**	729 x1000 lb	**Optimum**	22,600 ft-lb
Connection ID	4.778 in.	**Internal Pressure Capacity**	14,360 psi	**Maximum**	24,100 ft-lb
Make-up Loss	4.204 in.	**Compression Efficiency**	100 %		
Threads per inch	5	**Compression Strength**	729 x1000 lb	**Operation Limit Torques**	
Connection OD Option	Regular	**Max. Allowable Bending**	104 °/100 ft	**Operating Torque**	29,300 ft-lb
		External Pressure Capacity	12,300 psi	**Yield Torque**	32,500 ft-lb

Notes

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

PI-0/CII-3

Casing Assumptions

Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 812'	9.625	40	J-55	BTC	New	1.73	7.75	19.40
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	3.03	2.86	2.04
8.75	4000' – 9223.17'	7.625	29.7	HC L-80	Flush Joint	New	2.20	2.48	2.62
6.75	0' – 9123.17'	5.5	20	**RY P-100 ICY**	**Semi-Premium/ TPN**	New	1.05	2.29	2.15
6.75	9123.17' - 23007.36'	5.5	20	**RY P-100 ICY**	**Semi-Flush/ Wedge 441**	New	1.05	2.08	2.15

Casing Assumptions

Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 812'	9.625	40	J-55	BTC	New	1.73	7.75	19.40
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	3.03	2.86	2.04
8.75	4000' – 9223.17'	7.625	29.7	HC L-80	Flush Joint	New	2.20	2.48	2.62
6.75	0' – 9123.17'	5.5	20	**RY P-100 ICY**	**Semi-Premium/ TPN**	New	1.05	2.29	2.15
6.75	9123.17' - 23007.36'	5.5	20	**RY P-100 ICY**	**Semi-Flush/ Wedge 441**	New	1.05	2.08	2.15

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

Well Plan Report - Poker Lake Unit 18-30 BD 203H

Measured Depth:	23007.36 ft	**Site:**	Bone Spring 3 Shale
TVD RKB:	10072.00 ft	**Slot:**	Poker Lake Unit 18-30 BD 203H
Location			
Cartographic Reference System:	New Mexico East - NAD 27		
Northing:	413661.03 ft		
Easting:	628232.78 ft		
RKB:	3212.00 ft		
Ground Level:	3180.00 ft		
North Reference:	Grid		
Convergence Angle:	0.22 Deg		

Plan Sections Poker Lake Unit 18-30 BD 203H

Measured Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD RKB (ft)	Y Offset (ft)	X Offset (ft)	Build Rate (Deg/100ft)	Turn Rate (Deg/100ft)	Dogleg Rate (Deg/100ft)	Target
0.00	0.00	0.00	0.00	-0.00	-0.00	0.00	0.00	0.00	
1100.00	0.00	0.00	1100.00	-0.00	-0.00	0.00	0.00	0.00	
1568.81	9.38	78.54	1566.72	7.60	37.51	2.00	0.00	2.00	
6298.56	9.38	78.54	6233.28	160.67	792.70	0.00	0.00	0.00	
6767.37	0.00	0.00	6700.00	168.27	830.22	-2.00	0.00	2.00	
9423.17	0.00	0.00	9355.80	168.27	830.22	0.00	0.00	0.00	
10548.17	90.00	179.71	10072.00	-547.92	833.89	8.00	0.00	8.00	
10548.18	90.00	179.71	10072.00	-547.93	833.89	0.00	0.00	0.00	
22917.35	90.00	179.71	10072.00	-12916.93	897.42	0.00	0.00	0.00	LTP 14
23007.36	90.00	179.71	10072.00	-13006.94	897.88	0.00	0.00	0.00	BHL 4

Position Uncertainty Poker Lake Unit 18-30 BD 203H

Measured Depth (ft)	Inclination (°)	Azimuth (°)	TVD RKB (ft)	Highside Error (ft)	Highside Bias (ft)	Lateral Error (ft)	Lateral Bias (ft)	Vertical Error (ft)	Vertical Bias (ft)	Magnitude of Bias (ft)	Semi-major Error (ft)	Semi-minor Error (ft)	Semi-minor Azimuth (°)	Tool Used
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	XOMR2_OWSG MWD+IFR1+MS
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	XOMR2_OWSG MWD+IFR1+MS
200.000	0.000	0.000	200.000	0.717	0.000	0.538	0.000	2.309	0.000	0.000	0.717	0.538	90.000	XOMR2_OWSG MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.075	0.000	0.896	0.000	2.325	0.000	0.000	1.075	0.896	90.000	XOMR2_OWSG MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.434	0.000	1.255	0.000	2.346	0.000	0.000	1.434	1.255	90.000	XOMR2_OWSG MWD+IFR1+MS
500.000	0.000	0.000	500.000	1.792	0.000	1.613	0.000	2.373	0.000	0.000	1.792	1.613	90.000	XOMR2_OWSG MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.151	0.000	1.972	0.000	2.405	0.000	0.000	2.151	1.972	90.000	XOMR2_OWSG MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.509	0.000	2.330	0.000	2.441	0.000	0.000	2.509	2.330	90.000	XOMR2_OWSG MWD+IFR1+MS
800.000	0.000	0.000	800.000	2.868	0.000	2.689	0.000	2.483	0.000	0.000	2.868	2.689	90.000	XOMR2_OWSG MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.226	0.000	3.047	0.000	2.528	0.000	0.000	3.226	3.047	90.000	XOMR2_OWSG MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	3.585	0.000	3.405	0.000	2.577	0.000	0.000	3.585	3.405	90.000	XOMR2_OWSG MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	3.943	0.000	3.764	0.000	2.630	0.000	0.000	3.943	3.764	90.000	XOMR2_OWSG MWD+IFR1+MS
1200.000	2.000	78.542	1199.980	4.121	0.000	4.288	0.000	2.686	0.000	0.000	4.295	4.115	90.090	XOMR2_OWSG MWD+IFR1+MS
1300.000	4.000	78.542	1299.838	4.461	0.000	4.635	0.000	2.743	0.000	0.000	4.642	4.463	90.349	XOMR2_OWSG MWD+IFR1+MS
1400.000	6.000	78.542	1399.452	4.797	0.000	4.984	0.000	2.800	0.000	0.000	4.992	4.812	90.671	XOMR2_OWSG MWD+IFR1+MS
1500.000	8.000	78.542	1498.702	5.131	0.000	5.335	0.000	2.859	0.000	0.000	5.344	5.162	91.036	XOMR2_OWSG MWD+IFR1+MS
1568.811	9.376	78.542	1566.721	5.359	0.000	5.578	0.000	2.899	0.000	0.000	5.587	5.405	91.362	XOMR2_OWSG MWD+IFR1+MS
1600.000	9.376	78.542	1597.494	5.469	0.000	5.689	0.000	2.918	0.000	0.000	5.698	5.515	91.505	XOMR2_OWSG MWD+IFR1+MS

1700.000	9.376	78.542	1696.158	5.823	0.000	6.045	0.000	2.991	0.000	0.000	6.055	5.864	91.564	XOMR2_OWSG MWD+IFR1+MS
1800.000	9.376	78.542	1794.822	6.181	0.000	6.403	0.000	3.067	0.000	0.000	6.414	6.216	91.681	XOMR2_OWSG MWD+IFR1+MS
1900.000	9.376	78.542	1893.486	6.540	0.000	6.763	0.000	3.146	0.000	0.000	6.774	6.570	91.840	XOMR2_OWSG MWD+IFR1+MS
2000.000	9.376	78.542	1992.150	6.902	0.000	7.125	0.000	3.227	0.000	0.000	7.136	6.925	92.031	XOMR2_OWSG MWD+IFR1+MS
2100.000	9.376	78.542	2090.814	7.264	0.000	7.487	0.000	3.311	0.000	0.000	7.499	7.282	92.245	XOMR2_OWSG MWD+IFR1+MS
2200.000	9.376	78.542	2189.478	7.629	0.000	7.851	0.000	3.398	0.000	0.000	7.863	7.641	92.477	XOMR2_OWSG MWD+IFR1+MS
2300.000	9.376	78.542	2288.142	7.994	0.000	8.215	0.000	3.486	0.000	0.000	8.228	8.000	92.722	XOMR2_OWSG MWD+IFR1+MS
2400.000	9.376	78.542	2386.806	8.360	0.000	8.580	0.000	3.577	0.000	0.000	8.594	8.361	92.978	XOMR2_OWSG MWD+IFR1+MS
2500.000	9.376	78.542	2485.470	8.728	0.000	8.946	0.000	3.670	0.000	0.000	8.961	8.722	93.240	XOMR2_OWSG MWD+IFR1+MS
2600.000	9.376	78.542	2584.134	9.096	0.000	9.312	0.000	3.764	0.000	0.000	9.328	9.084	93.507	XOMR2_OWSG MWD+IFR1+MS
2700.000	9.376	78.542	2682.798	9.465	0.000	9.679	0.000	3.861	0.000	0.000	9.696	9.447	93.778	XOMR2_OWSG MWD+IFR1+MS
2800.000	9.376	78.542	2781.461	9.834	0.000	10.047	0.000	3.959	0.000	0.000	10.064	9.811	94.050	XOMR2_OWSG MWD+IFR1+MS
2900.000	9.376	78.542	2880.125	10.204	0.000	10.414	0.000	4.059	0.000	0.000	10.433	10.175	94.323	XOMR2_OWSG MWD+IFR1+MS
3000.000	9.376	78.542	2978.789	10.574	0.000	10.783	0.000	4.161	0.000	0.000	10.802	10.539	94.596	XOMR2_OWSG MWD+IFR1+MS
3100.000	9.376	78.542	3077.453	10.945	0.000	11.151	0.000	4.264	0.000	0.000	11.172	10.904	94.868	XOMR2_OWSG MWD+IFR1+MS
3200.000	9.376	78.542	3176.117	11.316	0.000	11.520	0.000	4.369	0.000	0.000	11.542	11.269	95.139	XOMR2_OWSG MWD+IFR1+MS
3300.000	9.376	78.542	3274.781	11.688	0.000	11.889	0.000	4.476	0.000	0.000	11.912	11.635	95.408	XOMR2_OWSG MWD+IFR1+MS
3400.000	9.376	78.542	3373.445	12.059	0.000	12.258	0.000	4.584	0.000	0.000	12.283	12.001	95.675	XOMR2_OWSG MWD+IFR1+MS
3500.000	9.376	78.542	3472.109	12.432	0.000	12.628	0.000	4.694	0.000	0.000	12.653	12.367	95.939	XOMR2_OWSG MWD+IFR1+MS
3600.000	9.376	78.542	3570.773	12.804	0.000	12.998	0.000	4.805	0.000	0.000	13.024	12.734	96.200	XOMR2_OWSG MWD+IFR1+MS

3700.000	9.376	78.542	3669.437	13.177	0.000	13.368	0.000	4.917	0.000	0.000	13.395	13.100	96.458	XOMR2_OWSG MWD+IFR1+MS
3800.000	9.376	78.542	3768.101	13.549	0.000	13.738	0.000	5.032	0.000	0.000	13.767	13.467	96.713	XOMR2_OWSG MWD+IFR1+MS
3900.000	9.376	78.542	3866.765	13.922	0.000	14.108	0.000	5.148	0.000	0.000	14.138	13.834	96.965	XOMR2_OWSG MWD+IFR1+MS
4000.000	9.376	78.542	3965.429	14.296	0.000	14.479	0.000	5.265	0.000	0.000	14.510	14.202	97.214	XOMR2_OWSG MWD+IFR1+MS
4100.000	9.376	78.542	4064.093	14.669	0.000	14.849	0.000	5.384	0.000	0.000	14.882	14.569	97.459	XOMR2_OWSG MWD+IFR1+MS
4200.000	9.376	78.542	4162.757	15.043	0.000	15.220	0.000	5.505	0.000	0.000	15.254	14.937	97.701	XOMR2_OWSG MWD+IFR1+MS
4300.000	9.376	78.542	4261.421	15.417	0.000	15.591	0.000	5.627	0.000	0.000	15.626	15.305	97.939	XOMR2_OWSG MWD+IFR1+MS
4400.000	9.376	78.542	4360.085	15.790	0.000	15.962	0.000	5.751	0.000	0.000	15.999	15.673	98.174	XOMR2_OWSG MWD+IFR1+MS
4500.000	9.376	78.542	4458.749	16.164	0.000	16.333	0.000	5.876	0.000	0.000	16.371	16.041	98.406	XOMR2_OWSG MWD+IFR1+MS
4600.000	9.376	78.542	4557.413	16.539	0.000	16.704	0.000	6.004	0.000	0.000	16.744	16.409	98.634	XOMR2_OWSG MWD+IFR1+MS
4700.000	9.376	78.542	4656.077	16.913	0.000	17.076	0.000	6.133	0.000	0.000	17.116	16.777	98.859	XOMR2_OWSG MWD+IFR1+MS
4800.000	9.376	78.542	4754.741	17.287	0.000	17.447	0.000	6.263	0.000	0.000	17.489	17.146	99.081	XOMR2_OWSG MWD+IFR1+MS
4900.000	9.376	78.542	4853.405	17.662	0.000	17.819	0.000	6.395	0.000	0.000	17.862	17.514	99.299	XOMR2_OWSG MWD+IFR1+MS
5000.000	9.376	78.542	4952.069	18.036	0.000	18.190	0.000	6.530	0.000	0.000	18.235	17.883	99.515	XOMR2_OWSG MWD+IFR1+MS
5100.000	9.376	78.542	5050.733	18.411	0.000	18.562	0.000	6.665	0.000	0.000	18.608	18.251	99.727	XOMR2_OWSG MWD+IFR1+MS
5200.000	9.376	78.542	5149.397	18.786	0.000	18.933	0.000	6.803	0.000	0.000	18.981	18.620	99.937	XOMR2_OWSG MWD+IFR1+MS
5300.000	9.376	78.542	5248.061	19.160	0.000	19.305	0.000	6.943	0.000	0.000	19.354	18.989	100.143	XOMR2_OWSG MWD+IFR1+MS
5400.000	9.376	78.542	5346.725	19.535	0.000	19.677	0.000	7.084	0.000	0.000	19.728	19.358	100.347	XOMR2_OWSG MWD+IFR1+MS
5500.000	9.376	78.542	5445.389	19.910	0.000	20.049	0.000	7.227	0.000	0.000	20.101	19.727	100.547	XOMR2_OWSG MWD+IFR1+MS
5600.000	9.376	78.542	5544.053	20.285	0.000	20.421	0.000	7.373	0.000	0.000	20.474	20.096	100.746	XOMR2_OWSG MWD+IFR1+MS

5700.000	9.376	78.542	5642.717	20.660	0.000	20.793	0.000	7.520	0.000	0.000	20.848	20.465	100.941	XOMR2_OWSG MWD+IFR1+MS
5800.000	9.376	78.542	5741.381	21.035	0.000	21.165	0.000	7.669	0.000	0.000	21.221	20.835	101.134	XOMR2_OWSG MWD+IFR1+MS
5900.000	9.376	78.542	5840.045	21.410	0.000	21.537	0.000	7.820	0.000	0.000	21.595	21.204	101.324	XOMR2_OWSG MWD+IFR1+MS
6000.000	9.376	78.542	5938.709	21.786	0.000	21.909	0.000	7.973	0.000	0.000	21.969	21.573	101.512	XOMR2_OWSG MWD+IFR1+MS
6100.000	9.376	78.542	6037.373	22.161	0.000	22.281	0.000	8.129	0.000	0.000	22.342	21.943	101.698	XOMR2_OWSG MWD+IFR1+MS
6200.000	9.376	78.542	6136.037	22.536	0.000	22.653	0.000	8.286	0.000	0.000	22.716	22.312	101.881	XOMR2_OWSG MWD+IFR1+MS
6298.559	9.376	78.542	6233.279	22.906	0.000	23.020	0.000	8.443	0.000	0.000	23.085	22.676	102.060	XOMR2_OWSG MWD+IFR1+MS
6300.000	9.347	78.542	6234.701	22.912	0.000	23.025	0.000	8.445	0.000	0.000	23.090	22.681	102.062	XOMR2_OWSG MWD+IFR1+MS
6400.000	7.347	78.542	6333.637	23.294	0.000	23.395	0.000	8.606	0.000	0.000	23.461	23.048	102.220	XOMR2_OWSG MWD+IFR1+MS
6500.000	5.347	78.542	6433.019	23.644	0.000	23.759	0.000	8.766	0.000	0.000	23.826	23.411	102.361	XOMR2_OWSG MWD+IFR1+MS
6600.000	3.347	78.542	6532.726	23.963	0.000	24.117	0.000	8.924	0.000	0.000	24.185	23.768	102.485	XOMR2_OWSG MWD+IFR1+MS
6700.000	1.347	78.542	6632.637	24.249	0.000	24.469	0.000	9.079	0.000	0.000	24.537	24.119	102.560	XOMR2_OWSG MWD+IFR1+MS
6767.369	0.000	0.000	6700.000	24.750	0.000	24.370	0.000	9.182	0.000	0.000	24.769	24.350	102.460	XOMR2_OWSG MWD+IFR1+MS
6800.000	0.000	0.000	6732.631	24.860	0.000	24.479	0.000	9.232	0.000	0.000	24.879	24.460	102.351	XOMR2_OWSG MWD+IFR1+MS
6900.000	0.000	0.000	6832.631	25.200	0.000	24.815	0.000	9.386	0.000	0.000	25.218	24.796	102.024	XOMR2_OWSG MWD+IFR1+MS
7000.000	0.000	0.000	6932.631	25.541	0.000	25.151	0.000	9.543	0.000	0.000	25.558	25.133	101.710	XOMR2_OWSG MWD+IFR1+MS
7100.000	0.000	0.000	7032.631	25.881	0.000	25.488	0.000	9.703	0.000	0.000	25.898	25.471	101.407	XOMR2_OWSG MWD+IFR1+MS
7200.000	0.000	0.000	7132.631	26.223	0.000	25.825	0.000	9.865	0.000	0.000	26.239	25.809	101.116	XOMR2_OWSG MWD+IFR1+MS
7300.000	0.000	0.000	7232.631	26.564	0.000	26.163	0.000	10.030	0.000	0.000	26.580	26.148	100.835	XOMR2_OWSG MWD+IFR1+MS
7400.000	0.000	0.000	7332.631	26.907	0.000	26.502	0.000	10.198	0.000	0.000	26.921	26.487	100.564	XOMR2_OWSG MWD+IFR1+MS

7500.000	0.000	0.000	7432.631	27.249	0.000	26.841	0.000	10.369	0.000	0.000	27.263	26.827	100.302	XOMR2_OWSG MWD+IFR1+MS
7600.000	0.000	0.000	7532.631	27.592	0.000	27.181	0.000	10.543	0.000	0.000	27.606	27.167	100.050	XOMR2_OWSG MWD+IFR1+MS
7700.000	0.000	0.000	7632.631	27.936	0.000	27.521	0.000	10.719	0.000	0.000	27.948	27.508	99.807	XOMR2_OWSG MWD+IFR1+MS
7800.000	0.000	0.000	7732.631	28.280	0.000	27.861	0.000	10.898	0.000	0.000	28.292	27.849	99.571	XOMR2_OWSG MWD+IFR1+MS
7900.000	0.000	0.000	7832.631	28.624	0.000	28.202	0.000	11.081	0.000	0.000	28.635	28.191	99.344	XOMR2_OWSG MWD+IFR1+MS
8000.000	0.000	0.000	7932.631	28.968	0.000	28.544	0.000	11.266	0.000	0.000	28.979	28.532	99.124	XOMR2_OWSG MWD+IFR1+MS
8100.000	0.000	0.000	8032.631	29.313	0.000	28.886	0.000	11.454	0.000	0.000	29.324	28.875	98.911	XOMR2_OWSG MWD+IFR1+MS
8200.000	0.000	0.000	8132.631	29.658	0.000	29.228	0.000	11.645	0.000	0.000	29.668	29.217	98.705	XOMR2_OWSG MWD+IFR1+MS
8300.000	0.000	0.000	8232.631	30.004	0.000	29.570	0.000	11.839	0.000	0.000	30.013	29.560	98.506	XOMR2_OWSG MWD+IFR1+MS
8400.000	0.000	0.000	8332.631	30.349	0.000	29.913	0.000	12.035	0.000	0.000	30.359	29.904	98.312	XOMR2_OWSG MWD+IFR1+MS
8500.000	0.000	0.000	8432.631	30.695	0.000	30.257	0.000	12.235	0.000	0.000	30.704	30.248	98.125	XOMR2_OWSG MWD+IFR1+MS
8600.000	0.000	0.000	8532.631	31.042	0.000	30.600	0.000	12.438	0.000	0.000	31.050	30.592	97.944	XOMR2_OWSG MWD+IFR1+MS
8700.000	0.000	0.000	8632.631	31.388	0.000	30.944	0.000	12.644	0.000	0.000	31.397	30.936	97.768	XOMR2_OWSG MWD+IFR1+MS
8800.000	0.000	0.000	8732.631	31.735	0.000	31.289	0.000	12.852	0.000	0.000	31.743	31.281	97.597	XOMR2_OWSG MWD+IFR1+MS
8900.000	0.000	0.000	8832.631	32.082	0.000	31.633	0.000	13.064	0.000	0.000	32.090	31.626	97.432	XOMR2_OWSG MWD+IFR1+MS
9000.000	0.000	0.000	8932.631	32.430	0.000	31.978	0.000	13.279	0.000	0.000	32.437	31.971	97.271	XOMR2_OWSG MWD+IFR1+MS
9100.000	0.000	0.000	9032.631	32.777	0.000	32.324	0.000	13.496	0.000	0.000	32.784	32.317	97.114	XOMR2_OWSG MWD+IFR1+MS
9200.000	0.000	0.000	9132.631	33.125	0.000	32.669	0.000	13.717	0.000	0.000	33.132	32.662	96.963	XOMR2_OWSG MWD+IFR1+MS
9300.000	0.000	0.000	9232.631	33.473	0.000	33.015	0.000	13.941	0.000	0.000	33.480	33.008	96.815	XOMR2_OWSG MWD+IFR1+MS
9400.000	0.000	0.000	9332.631	33.821	0.000	33.361	0.000	14.167	0.000	0.000	33.828	33.355	96.672	XOMR2_OWSG MWD+IFR1+MS

9423.169	0.000	0.000	9355.800	33.902	0.000	33.441	0.000	14.220	0.000	0.000	33.908	33.435	96.639	XOMR2_OWSG MWD+IFR1+MS
9500.000	6.146	179.706	9432.483	33.932	0.000	33.699	-0.000	14.395	0.000	0.000	34.164	33.692	96.472	XOMR2_OWSG MWD+IFR1+MS
9600.000	14.146	179.706	9530.839	33.475	0.000	34.015	-0.000	14.618	0.000	0.000	34.475	34.009	96.090	XOMR2_OWSG MWD+IFR1+MS
9700.000	22.146	179.706	9625.789	32.486	0.000	34.319	-0.000	14.829	0.000	0.000	34.765	34.314	95.651	XOMR2_OWSG MWD+IFR1+MS
9800.000	30.146	179.706	9715.483	31.000	0.000	34.605	-0.000	15.030	0.000	0.000	35.027	34.601	95.385	XOMR2_OWSG MWD+IFR1+MS
9900.000	38.146	179.706	9798.176	29.078	0.000	34.872	-0.000	15.219	0.000	0.000	35.256	34.868	95.614	XOMR2_OWSG MWD+IFR1+MS
10000.000	46.146	179.706	9872.259	26.806	0.000	35.118	-0.000	15.402	0.000	0.000	35.448	35.113	96.895	XOMR2_OWSG MWD+IFR1+MS
10100.000	54.146	179.706	9936.290	24.306	0.000	35.340	-0.000	15.584	0.000	0.000	35.603	35.331	100.406	XOMR2_OWSG MWD+IFR1+MS
10200.000	62.146	179.706	9989.022	21.753	0.000	35.538	-0.000	15.771	0.000	0.000	35.729	35.516	108.725	XOMR2_OWSG MWD+IFR1+MS
10300.000	70.146	179.706	10029.429	19.390	0.000	35.711	-0.000	15.971	0.000	0.000	35.843	35.649	124.008	XOMR2_OWSG MWD+IFR1+MS
10400.000	78.146	179.706	10056.725	17.549	0.000	35.856	-0.000	16.190	0.000	0.000	35.967	35.714	-41.904	XOMR2_OWSG MWD+IFR1+MS
10500.000	86.146	179.706	10070.378	16.601	0.000	35.973	-0.000	16.429	0.000	0.000	36.092	35.728	-35.176	XOMR2_OWSG MWD+IFR1+MS
10548.169	90.000	179.706	10071.997	16.552	0.000	36.018	-0.000	16.552	0.000	0.000	36.147	35.722	-33.829	XOMR2_OWSG MWD+IFR1+MS
10548.182	90.000	179.706	10071.997	16.552	0.000	36.018	-0.000	16.552	0.000	0.000	36.147	35.722	-33.839	XOMR2_OWSG MWD+IFR1+MS
10600.000	90.000	179.706	10071.997	16.691	0.000	36.065	-0.000	16.691	0.000	0.000	36.207	35.712	-32.768	XOMR2_OWSG MWD+IFR1+MS
10700.000	90.000	179.706	10071.997	16.983	0.000	36.169	-0.000	16.983	0.000	0.000	36.332	35.696	-30.820	XOMR2_OWSG MWD+IFR1+MS
10800.000	90.000	179.706	10071.997	17.305	0.000	36.289	-0.000	17.305	0.000	0.000	36.470	35.684	-29.103	XOMR2_OWSG MWD+IFR1+MS
10900.000	90.000	179.706	10071.997	17.657	0.000	36.425	-0.000	17.657	0.000	0.000	36.622	35.674	-27.558	XOMR2_OWSG MWD+IFR1+MS
11000.000	90.000	179.706	10071.997	18.036	0.000	36.577	-0.000	18.036	0.000	0.000	36.787	35.668	-26.154	XOMR2_OWSG MWD+IFR1+MS
11100.000	90.000	179.706	10071.997	18.441	0.000	36.743	-0.000	18.441	0.000	0.000	36.965	35.663	-24.869	XOMR2_OWSG MWD+IFR1+MS

11200.000	90.000	179.706	10071.997	18.869	0.000	36.925	-0.000	18.869	0.000	0.000	37.157	35.661	-23.688	XOMR2_OWSG MWD+IFR1+MS
11300.000	90.000	179.706	10071.997	19.320	0.000	37.122	-0.000	19.320	0.000	0.000	37.362	35.661	-22.601	XOMR2_OWSG MWD+IFR1+MS
11400.000	90.000	179.706	10071.997	19.792	0.000	37.333	-0.000	19.792	0.000	0.000	37.581	35.662	-21.597	XOMR2_OWSG MWD+IFR1+MS
11500.000	90.000	179.706	10071.997	20.284	0.000	37.559	-0.000	20.284	0.000	0.000	37.813	35.666	-20.668	XOMR2_OWSG MWD+IFR1+MS
11600.000	90.000	179.706	10071.997	20.793	0.000	37.799	-0.000	20.793	0.000	0.000	38.058	35.670	-19.807	XOMR2_OWSG MWD+IFR1+MS
11700.000	90.000	179.706	10071.997	21.319	0.000	38.053	-0.000	21.319	0.000	0.000	38.316	35.676	-19.008	XOMR2_OWSG MWD+IFR1+MS
11800.000	90.000	179.706	10071.997	21.861	0.000	38.320	-0.000	21.861	0.000	0.000	38.587	35.684	-18.265	XOMR2_OWSG MWD+IFR1+MS
11900.000	90.000	179.706	10071.997	22.416	0.000	38.601	-0.000	22.416	0.000	0.000	38.870	35.692	-17.573	XOMR2_OWSG MWD+IFR1+MS
12000.000	90.000	179.706	10071.997	22.986	0.000	38.894	-0.000	22.986	0.000	0.000	39.167	35.702	-16.927	XOMR2_OWSG MWD+IFR1+MS
12100.000	90.000	179.706	10071.997	23.567	0.000	39.201	-0.000	23.567	0.000	0.000	39.475	35.713	-16.324	XOMR2_OWSG MWD+IFR1+MS
12200.000	90.000	179.706	10071.997	24.161	0.000	39.520	-0.000	24.161	0.000	0.000	39.795	35.725	-15.759	XOMR2_OWSG MWD+IFR1+MS
12300.000	90.000	179.706	10071.997	24.764	0.000	39.851	-0.000	24.764	0.000	0.000	40.127	35.737	-15.230	XOMR2_OWSG MWD+IFR1+MS
12400.000	90.000	179.706	10071.997	25.378	0.000	40.194	-0.000	25.378	0.000	0.000	40.471	35.751	-14.733	XOMR2_OWSG MWD+IFR1+MS
12500.000	90.000	179.706	10071.997	26.001	0.000	40.548	-0.000	26.001	0.000	0.000	40.826	35.766	-14.265	XOMR2_OWSG MWD+IFR1+MS
12600.000	90.000	179.706	10071.997	26.633	0.000	40.914	-0.000	26.633	0.000	0.000	41.191	35.781	-13.825	XOMR2_OWSG MWD+IFR1+MS
12700.000	90.000	179.706	10071.997	27.272	0.000	41.290	-0.000	27.272	0.000	0.000	41.568	35.798	-13.411	XOMR2_OWSG MWD+IFR1+MS
12800.000	90.000	179.706	10071.997	27.919	0.000	41.677	-0.000	27.919	0.000	0.000	41.955	35.815	-13.019	XOMR2_OWSG MWD+IFR1+MS
12900.000	90.000	179.706	10071.997	28.573	0.000	42.075	-0.000	28.573	0.000	0.000	42.351	35.833	-12.649	XOMR2_OWSG MWD+IFR1+MS
13000.000	90.000	179.706	10071.997	29.233	0.000	42.483	-0.000	29.233	0.000	0.000	42.758	35.852	-12.299	XOMR2_OWSG MWD+IFR1+MS
13100.000	90.000	179.706	10071.997	29.899	0.000	42.900	-0.000	29.899	0.000	0.000	43.175	35.872	-11.967	XOMR2_OWSG MWD+IFR1+MS

13200.000	90.000	179.706	10071.997	30.571	0.000	43.327	-0.000	30.571	0.000	0.000	43.601	35.892	-11.652	XOMR2_OWSG MWD+IFR1+MS
13300.000	90.000	179.706	10071.997	31.248	0.000	43.763	-0.000	31.248	0.000	0.000	44.035	35.913	-11.353	XOMR2_OWSG MWD+IFR1+MS
13400.000	90.000	179.706	10071.997	31.930	0.000	44.208	-0.000	31.930	0.000	0.000	44.479	35.935	-11.069	XOMR2_OWSG MWD+IFR1+MS
13500.000	90.000	179.706	10071.997	32.617	0.000	44.662	-0.000	32.617	0.000	0.000	44.931	35.958	-10.798	XOMR2_OWSG MWD+IFR1+MS
13600.000	90.000	179.706	10071.997	33.308	0.000	45.124	-0.000	33.308	0.000	0.000	45.392	35.981	-10.540	XOMR2_OWSG MWD+IFR1+MS
13700.000	90.000	179.706	10071.997	34.003	0.000	45.595	-0.000	34.003	0.000	0.000	45.861	36.006	-10.294	XOMR2_OWSG MWD+IFR1+MS
13800.000	90.000	179.706	10071.997	34.702	0.000	46.073	-0.000	34.702	0.000	0.000	46.337	36.030	-10.059	XOMR2_OWSG MWD+IFR1+MS
13900.000	90.000	179.706	10071.997	35.405	0.000	46.559	-0.000	35.405	0.000	0.000	46.821	36.056	-9.835	XOMR2_OWSG MWD+IFR1+MS
14000.000	90.000	179.706	10071.997	36.110	0.000	47.052	-0.000	36.110	0.000	0.000	47.313	36.082	-9.620	XOMR2_OWSG MWD+IFR1+MS
14100.000	90.000	179.706	10071.997	36.820	0.000	47.553	-0.000	36.820	0.000	0.000	47.811	36.109	-9.414	XOMR2_OWSG MWD+IFR1+MS
14200.000	90.000	179.706	10071.997	37.532	0.000	48.060	-0.000	37.532	0.000	0.000	48.317	36.137	-9.217	XOMR2_OWSG MWD+IFR1+MS
14300.000	90.000	179.706	10071.997	38.247	0.000	48.574	-0.000	38.247	0.000	0.000	48.829	36.165	-9.029	XOMR2_OWSG MWD+IFR1+MS
14400.000	90.000	179.706	10071.997	38.964	0.000	49.095	-0.000	38.964	0.000	0.000	49.348	36.194	-8.847	XOMR2_OWSG MWD+IFR1+MS
14500.000	90.000	179.706	10071.997	39.684	0.000	49.622	-0.000	39.684	0.000	0.000	49.873	36.224	-8.673	XOMR2_OWSG MWD+IFR1+MS
14600.000	90.000	179.706	10071.997	40.407	0.000	50.155	-0.000	40.407	0.000	0.000	50.404	36.254	-8.506	XOMR2_OWSG MWD+IFR1+MS
14700.000	90.000	179.706	10071.997	41.132	0.000	50.695	-0.000	41.132	0.000	0.000	50.941	36.285	-8.345	XOMR2_OWSG MWD+IFR1+MS
14800.000	90.000	179.706	10071.997	41.859	0.000	51.240	-0.000	41.859	0.000	0.000	51.484	36.317	-8.190	XOMR2_OWSG MWD+IFR1+MS
14900.000	90.000	179.706	10071.997	42.588	0.000	51.790	-0.000	42.588	0.000	0.000	52.033	36.349	-8.041	XOMR2_OWSG MWD+IFR1+MS
15000.000	90.000	179.706	10071.997	43.319	0.000	52.346	-0.000	43.319	0.000	0.000	52.586	36.382	-7.897	XOMR2_OWSG MWD+IFR1+MS
15100.000	90.000	179.706	10071.997	44.052	0.000	52.907	-0.000	44.052	0.000	0.000	53.145	36.416	-7.759	XOMR2_OWSG MWD+IFR1+MS

15200.000	90.000	179.706	10071.997	44.787	0.000	53.473	-0.000	44.787	0.000	0.000	53.710	36.450	-7.625	XOMR2_OWSG MWD+IFR1+MS
15300.000	90.000	179.706	10071.997	45.523	0.000	54.044	-0.000	45.523	0.000	0.000	54.279	36.485	-7.496	XOMR2_OWSG MWD+IFR1+MS
15400.000	90.000	179.706	10071.997	46.261	0.000	54.620	-0.000	46.261	0.000	0.000	54.852	36.520	-7.371	XOMR2_OWSG MWD+IFR1+MS
15500.000	90.000	179.706	10071.997	47.000	0.000	55.201	-0.000	47.000	0.000	0.000	55.431	36.556	-7.250	XOMR2_OWSG MWD+IFR1+MS
15600.000	90.000	179.706	10071.997	47.741	0.000	55.785	-0.000	47.741	0.000	0.000	56.014	36.593	-7.134	XOMR2_OWSG MWD+IFR1+MS
15700.000	90.000	179.706	10071.997	48.483	0.000	56.375	-0.000	48.483	0.000	0.000	56.601	36.630	-7.021	XOMR2_OWSG MWD+IFR1+MS
15800.000	90.000	179.706	10071.997	49.227	0.000	56.968	-0.000	49.227	0.000	0.000	57.192	36.668	-6.912	XOMR2_OWSG MWD+IFR1+MS
15900.000	90.000	179.706	10071.997	49.972	0.000	57.566	-0.000	49.972	0.000	0.000	57.788	36.707	-6.806	XOMR2_OWSG MWD+IFR1+MS
16000.000	90.000	179.706	10071.997	50.718	0.000	58.167	-0.000	50.718	0.000	0.000	58.387	36.746	-6.703	XOMR2_OWSG MWD+IFR1+MS
16100.000	90.000	179.706	10071.997	51.465	0.000	58.772	-0.000	51.465	0.000	0.000	58.990	36.786	-6.604	XOMR2_OWSG MWD+IFR1+MS
16200.000	90.000	179.706	10071.997	52.213	0.000	59.381	-0.000	52.213	0.000	0.000	59.597	36.827	-6.508	XOMR2_OWSG MWD+IFR1+MS
16300.000	90.000	179.706	10071.997	52.963	0.000	59.993	-0.000	52.963	0.000	0.000	60.208	36.868	-6.414	XOMR2_OWSG MWD+IFR1+MS
16400.000	90.000	179.706	10071.997	53.713	0.000	60.609	-0.000	53.713	0.000	0.000	60.822	36.909	-6.323	XOMR2_OWSG MWD+IFR1+MS
16500.000	90.000	179.706	10071.997	54.464	0.000	61.229	-0.000	54.464	0.000	0.000	61.439	36.952	-6.235	XOMR2_OWSG MWD+IFR1+MS
16600.000	90.000	179.706	10071.997	55.217	0.000	61.851	-0.000	55.217	0.000	0.000	62.060	36.995	-6.149	XOMR2_OWSG MWD+IFR1+MS
16700.000	90.000	179.706	10071.997	55.970	0.000	62.477	-0.000	55.970	0.000	0.000	62.684	37.038	-6.066	XOMR2_OWSG MWD+IFR1+MS
16800.000	90.000	179.706	10071.997	56.724	0.000	63.106	-0.000	56.724	0.000	0.000	63.311	37.082	-5.985	XOMR2_OWSG MWD+IFR1+MS
16900.000	90.000	179.706	10071.997	57.479	0.000	63.738	-0.000	57.479	0.000	0.000	63.941	37.127	-5.906	XOMR2_OWSG MWD+IFR1+MS
17000.000	90.000	179.706	10071.997	58.234	0.000	64.372	-0.000	58.234	0.000	0.000	64.573	37.172	-5.830	XOMR2_OWSG MWD+IFR1+MS
17100.000	90.000	179.706	10071.997	58.991	0.000	65.010	-0.000	58.991	0.000	0.000	65.209	37.218	-5.755	XOMR2_OWSG MWD+IFR1+MS

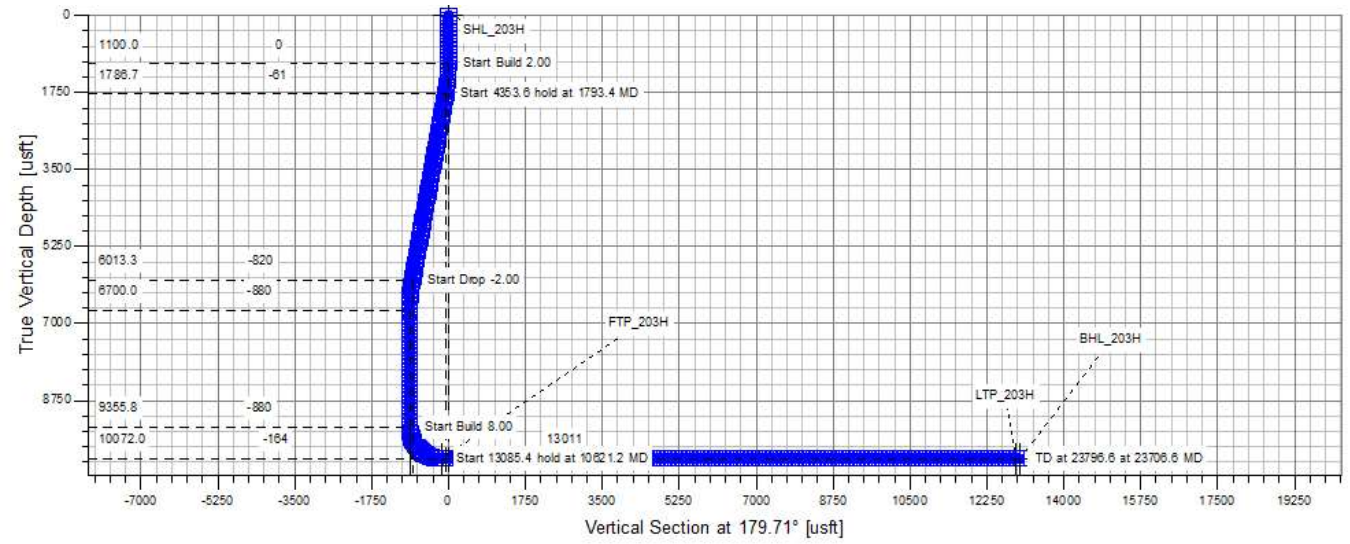
17200.000	90.000	179.706	10071.997	59.748	0.000	65.650	-0.000	59.748	0.000	0.000	65.848	37.264	-5.683	XOMR2_OWSG MWD+IFR1+MS
17300.000	90.000	179.706	10071.997	60.506	0.000	66.293	-0.000	60.506	0.000	0.000	66.489	37.311	-5.612	XOMR2_OWSG MWD+IFR1+MS
17400.000	90.000	179.706	10071.997	61.264	0.000	66.938	-0.000	61.264	0.000	0.000	67.132	37.359	-5.543	XOMR2_OWSG MWD+IFR1+MS
17500.000	90.000	179.706	10071.997	62.023	0.000	67.586	-0.000	62.023	0.000	0.000	67.779	37.407	-5.476	XOMR2_OWSG MWD+IFR1+MS
17600.000	90.000	179.706	10071.997	62.783	0.000	68.236	-0.000	62.783	0.000	0.000	68.427	37.456	-5.410	XOMR2_OWSG MWD+IFR1+MS
17700.000	90.000	179.706	10071.997	63.544	0.000	68.889	-0.000	63.544	0.000	0.000	69.078	37.505	-5.346	XOMR2_OWSG MWD+IFR1+MS
17800.000	90.000	179.706	10071.997	64.305	0.000	69.544	-0.000	64.305	0.000	0.000	69.732	37.555	-5.284	XOMR2_OWSG MWD+IFR1+MS
17900.000	90.000	179.706	10071.997	65.066	0.000	70.201	-0.000	65.066	0.000	0.000	70.387	37.605	-5.223	XOMR2_OWSG MWD+IFR1+MS
18000.000	90.000	179.706	10071.997	65.828	0.000	70.861	-0.000	65.828	0.000	0.000	71.045	37.656	-5.164	XOMR2_OWSG MWD+IFR1+MS
18100.000	90.000	179.706	10071.997	66.591	0.000	71.522	-0.000	66.591	0.000	0.000	71.705	37.708	-5.106	XOMR2_OWSG MWD+IFR1+MS
18200.000	90.000	179.706	10071.997	67.354	0.000	72.186	-0.000	67.354	0.000	0.000	72.367	37.760	-5.049	XOMR2_OWSG MWD+IFR1+MS
18300.000	90.000	179.706	10071.997	68.118	0.000	72.851	-0.000	68.118	0.000	0.000	73.031	37.813	-4.994	XOMR2_OWSG MWD+IFR1+MS
18400.000	90.000	179.706	10071.997	68.882	0.000	73.519	-0.000	68.882	0.000	0.000	73.697	37.866	-4.940	XOMR2_OWSG MWD+IFR1+MS
18500.000	90.000	179.706	10071.997	69.646	0.000	74.188	-0.000	69.646	0.000	0.000	74.365	37.920	-4.887	XOMR2_OWSG MWD+IFR1+MS
18600.000	90.000	179.706	10071.997	70.411	0.000	74.860	-0.000	70.411	0.000	0.000	75.035	37.974	-4.836	XOMR2_OWSG MWD+IFR1+MS
18700.000	90.000	179.706	10071.997	71.177	0.000	75.533	-0.000	71.177	0.000	0.000	75.706	38.029	-4.785	XOMR2_OWSG MWD+IFR1+MS
18800.000	90.000	179.706	10071.997	71.943	0.000	76.207	-0.000	71.943	0.000	0.000	76.380	38.084	-4.736	XOMR2_OWSG MWD+IFR1+MS
18900.000	90.000	179.706	10071.997	72.709	0.000	76.884	-0.000	72.709	0.000	0.000	77.055	38.140	-4.687	XOMR2_OWSG MWD+IFR1+MS
19000.000	90.000	179.706	10071.997	73.475	0.000	77.562	-0.000	73.475	0.000	0.000	77.731	38.197	-4.640	XOMR2_OWSG MWD+IFR1+MS
19100.000	90.000	179.706	10071.997	74.242	0.000	78.242	-0.000	74.242	0.000	0.000	78.410	38.254	-4.594	XOMR2_OWSG MWD+IFR1+MS

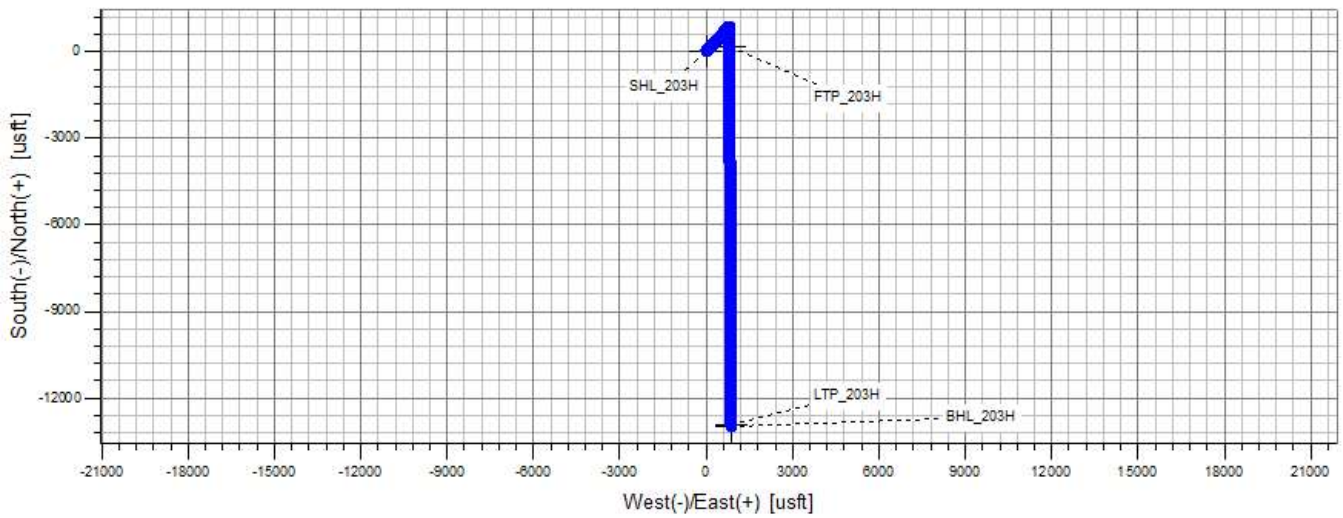
19200.000	90.000	179.706	10071.997	75.010	0.000	78.923	-0.000	75.010	0.000	0.000	79.090	38.311	-4.548	XOMR2_OWSG MWD+IFR1+MS
19300.000	90.000	179.706	10071.997	75.778	0.000	79.606	-0.000	75.778	0.000	0.000	79.771	38.369	-4.504	XOMR2_OWSG MWD+IFR1+MS
19400.000	90.000	179.706	10071.997	76.546	0.000	80.290	-0.000	76.546	0.000	0.000	80.454	38.428	-4.461	XOMR2_OWSG MWD+IFR1+MS
19500.000	90.000	179.706	10071.997	77.314	0.000	80.976	-0.000	77.314	0.000	0.000	81.138	38.487	-4.418	XOMR2_OWSG MWD+IFR1+MS
19600.000	90.000	179.706	10071.997	78.083	0.000	81.663	-0.000	78.083	0.000	0.000	81.824	38.546	-4.376	XOMR2_OWSG MWD+IFR1+MS
19700.000	90.000	179.706	10071.997	78.852	0.000	82.351	-0.000	78.852	0.000	0.000	82.511	38.607	-4.335	XOMR2_OWSG MWD+IFR1+MS
19800.000	90.000	179.706	10071.997	79.621	0.000	83.041	-0.000	79.621	0.000	0.000	83.200	38.667	-4.295	XOMR2_OWSG MWD+IFR1+MS
19900.000	90.000	179.706	10071.997	80.391	0.000	83.732	-0.000	80.391	0.000	0.000	83.890	38.729	-4.256	XOMR2_OWSG MWD+IFR1+MS
20000.000	90.000	179.706	10071.997	81.161	0.000	84.425	-0.000	81.161	0.000	0.000	84.581	38.790	-4.217	XOMR2_OWSG MWD+IFR1+MS
20100.000	90.000	179.706	10071.997	81.931	0.000	85.118	-0.000	81.931	0.000	0.000	85.274	38.852	-4.180	XOMR2_OWSG MWD+IFR1+MS
20200.000	90.000	179.706	10071.997	82.702	0.000	85.813	-0.000	82.702	0.000	0.000	85.967	38.915	-4.142	XOMR2_OWSG MWD+IFR1+MS
20300.000	90.000	179.706	10071.997	83.473	0.000	86.509	-0.000	83.473	0.000	0.000	86.662	38.978	-4.106	XOMR2_OWSG MWD+IFR1+MS
20400.000	90.000	179.706	10071.997	84.244	0.000	87.206	-0.000	84.244	0.000	0.000	87.358	39.042	-4.070	XOMR2_OWSG MWD+IFR1+MS
20500.000	90.000	179.706	10071.997	85.015	0.000	87.905	-0.000	85.015	0.000	0.000	88.055	39.106	-4.035	XOMR2_OWSG MWD+IFR1+MS
20600.000	90.000	179.706	10071.997	85.786	0.000	88.604	-0.000	85.786	0.000	0.000	88.754	39.171	-4.001	XOMR2_OWSG MWD+IFR1+MS
20700.000	90.000	179.706	10071.997	86.558	0.000	89.305	-0.000	86.558	0.000	0.000	89.453	39.236	-3.967	XOMR2_OWSG MWD+IFR1+MS
20800.000	90.000	179.706	10071.997	87.330	0.000	90.006	-0.000	87.330	0.000	0.000	90.154	39.302	-3.934	XOMR2_OWSG MWD+IFR1+MS
20900.000	90.000	179.706	10071.997	88.102	0.000	90.709	-0.000	88.102	0.000	0.000	90.855	39.368	-3.901	XOMR2_OWSG MWD+IFR1+MS
21000.000	90.000	179.706	10071.997	88.875	0.000	91.413	-0.000	88.875	0.000	0.000	91.558	39.435	-3.869	XOMR2_OWSG MWD+IFR1+MS
21100.000	90.000	179.706	10071.997	89.648	0.000	92.117	-0.000	89.648	0.000	0.000	92.261	39.502	-3.838	XOMR2_OWSG MWD+IFR1+MS

21200.000	90.000	179.706	10071.997	90.420	0.000	92.823	-0.000	90.420	0.000	0.000	92.966	39.570	-3.807	XOMR2_OWSG MWD+IFR1+MS
21300.000	90.000	179.706	10071.997	91.194	0.000	93.529	-0.000	91.194	0.000	0.000	93.671	39.638	-3.776	XOMR2_OWSG MWD+IFR1+MS
21400.000	90.000	179.706	10071.997	91.967	0.000	94.237	-0.000	91.967	0.000	0.000	94.378	39.706	-3.747	XOMR2_OWSG MWD+IFR1+MS
21500.000	90.000	179.706	10071.997	92.740	0.000	94.945	-0.000	92.740	0.000	0.000	95.085	39.776	-3.717	XOMR2_OWSG MWD+IFR1+MS
21600.000	90.000	179.706	10071.997	93.514	0.000	95.654	-0.000	93.514	0.000	0.000	95.793	39.845	-3.688	XOMR2_OWSG MWD+IFR1+MS
21700.000	90.000	179.706	10071.997	94.288	0.000	96.364	-0.000	94.288	0.000	0.000	96.502	39.915	-3.660	XOMR2_OWSG MWD+IFR1+MS
21800.000	90.000	179.706	10071.997	95.062	0.000	97.075	-0.000	95.062	0.000	0.000	97.212	39.986	-3.632	XOMR2_OWSG MWD+IFR1+MS
21900.000	90.000	179.706	10071.997	95.836	0.000	97.787	-0.000	95.836	0.000	0.000	97.923	40.057	-3.605	XOMR2_OWSG MWD+IFR1+MS
22000.000	90.000	179.706	10071.997	96.610	0.000	98.499	-0.000	96.610	0.000	0.000	98.634	40.128	-3.578	XOMR2_OWSG MWD+IFR1+MS
22100.000	90.000	179.706	10071.997	97.385	0.000	99.213	-0.000	97.385	0.000	0.000	99.347	40.200	-3.551	XOMR2_OWSG MWD+IFR1+MS
22200.000	90.000	179.706	10071.997	98.160	0.000	99.927	-0.000	98.160	0.000	0.000	100.060	40.272	-3.525	XOMR2_OWSG MWD+IFR1+MS
22300.000	90.000	179.706	10071.997	98.935	0.000	100.642	-0.000	98.935	0.000	0.000	100.774	40.345	-3.499	XOMR2_OWSG MWD+IFR1+MS
22400.000	90.000	179.706	10071.997	99.710	0.000	101.357	-0.000	99.710	0.000	0.000	101.489	40.418	-3.474	XOMR2_OWSG MWD+IFR1+MS
22500.000	90.000	179.706	10071.997	100.485	0.000	102.073	-0.000	100.485	0.000	0.000	102.204	40.492	-3.449	XOMR2_OWSG MWD+IFR1+MS
22600.000	90.000	179.706	10071.997	101.260	0.000	102.790	-0.000	101.260	0.000	0.000	102.920	40.566	-3.424	XOMR2_OWSG MWD+IFR1+MS
22700.000	90.000	179.706	10071.997	102.035	0.000	103.508	-0.000	102.035	0.000	0.000	103.637	40.641	-3.400	XOMR2_OWSG MWD+IFR1+MS
22800.000	90.000	179.706	10071.997	102.811	0.000	104.226	-0.000	102.811	0.000	0.000	104.354	40.716	-3.376	XOMR2_OWSG MWD+IFR1+MS
22900.000	90.000	179.706	10071.997	103.587	0.000	104.945	-0.000	103.587	0.000	0.000	105.072	40.791	-3.353	XOMR2_OWSG MWD+IFR1+MS
22917.348	90.000	179.706	10072.000	103.721	0.000	105.070	-0.000	103.721	0.000	0.000	105.197	40.804	-3.349	XOMR2_OWSG MWD+IFR1+MS
23007.358	90.000	179.706	10072.000	104.420	0.000	105.718	-0.000	104.420	0.000	0.000	105.844	40.873	-3.328	XOMR2_OWSG MWD+IFR1+MS

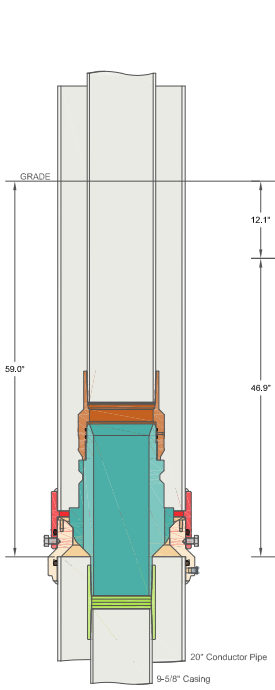
Plan Targets	Poker Lake Unit 18-30 BD 203H				
Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 4	10297.15	413829.30	629063.00	6860.00	CIRCLE
LTP 14	22917.35	400744.10	629130.20	6860.00	CIRCLE
BHL 4	23007.35	400654.10	629130.80	6860.00	CIRCLE

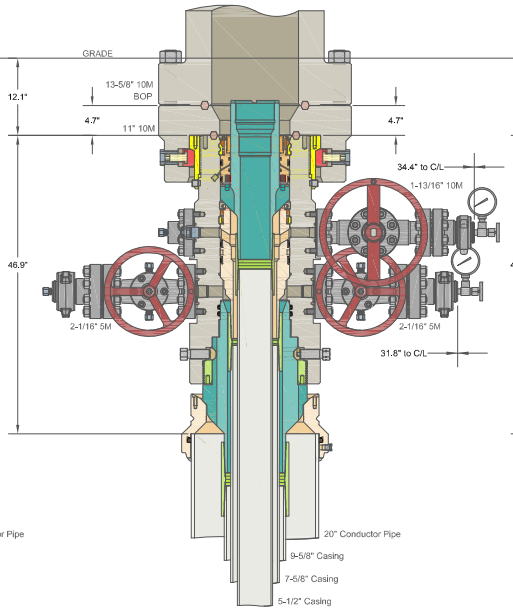
Poker Lake Unit 18-30 BD 203H

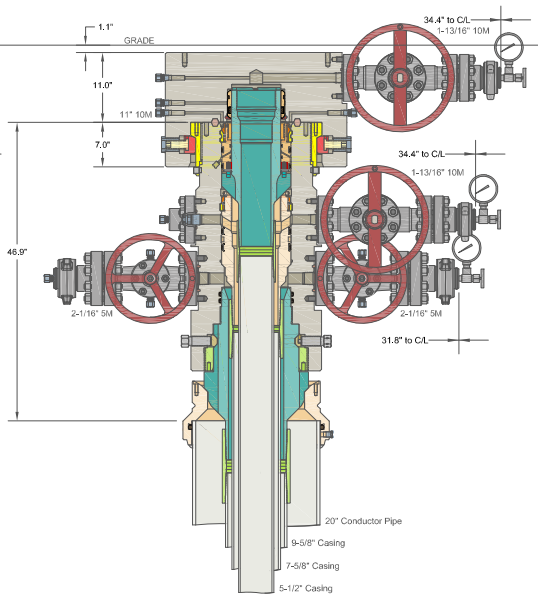


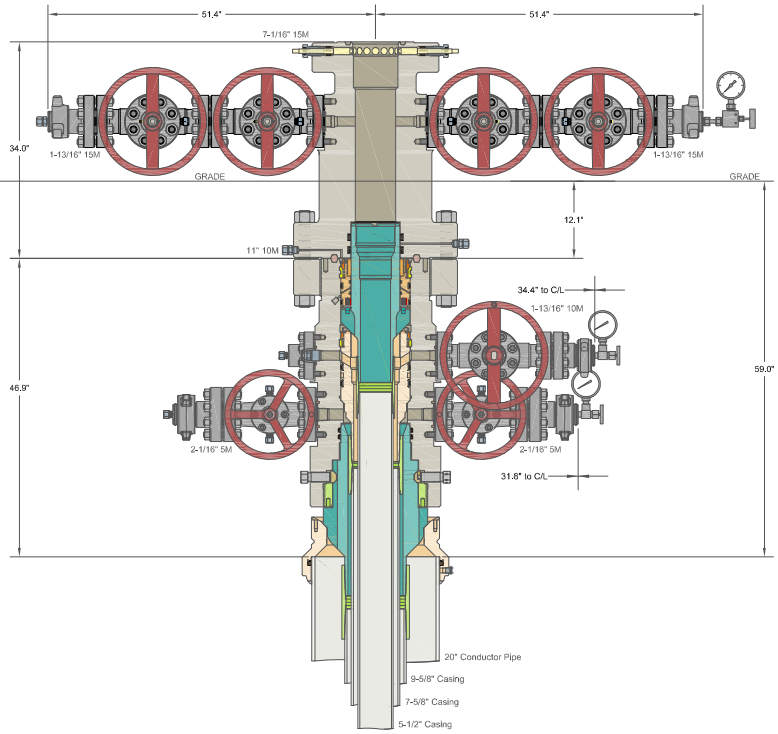


Formation	TVDSS (feet)	TVD (feet)
Rustler	2,500'	712'
Salado	2,070'	1,142'
Base of Salt	-107'	3,319'
Delaware	-326'	3,538'
Cherry Canyon	-1,235'	4,447'
Brushy Canyon	-2,493'	5,705'
Basal Brushy Canyon	-3,875'	7,087'
Bone Spring Lm.	-4,096'	7,308'
Avalon Shale	-4,263'	7,475'
Lower Avalon Shale	-4,678'	7,890'
1st Bone Spring Lime	-4,855'	8,067'
1st Bone Spring Sand	-5,066'	8,278'
2nd Bone Spring Shale	-5,304'	8,516'
2nd Bone Spring Lime	-5,398'	8,610'
2nd Bone Spring Sand	-5,866'	9,078'
2nd Bone Spring T/B Carb	-6,019'	9,231'
3rd Bone Spring Lime	-6,174'	9,386'
Harkey	-6,512'	9,724'
3rd Bone Spring Shale	-6,549'	9,761'
Landing	-6,860'	10,072'
3rd Bone Spring Sand	-6,939'	10,151'
Wolfcamp	-7,289'	10,501'









ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC	XTO ENERGY INC DELAWARE BASIN		
20" x 9-5/8" x 7-5/8" x 5-1/2" MBU-T-CFL-R-DBLO Wellhead With 11" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head And 9-5/8", 7-5/8" & 5-1/2" Pin Bottom Mandrel Casing Hangers	DRAWN	VJK	31MAR22
	APPRV		
	DRAWING NO.	HBE0000479	

Cement Variance Request

Intermediate Casing:

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (5705') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

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

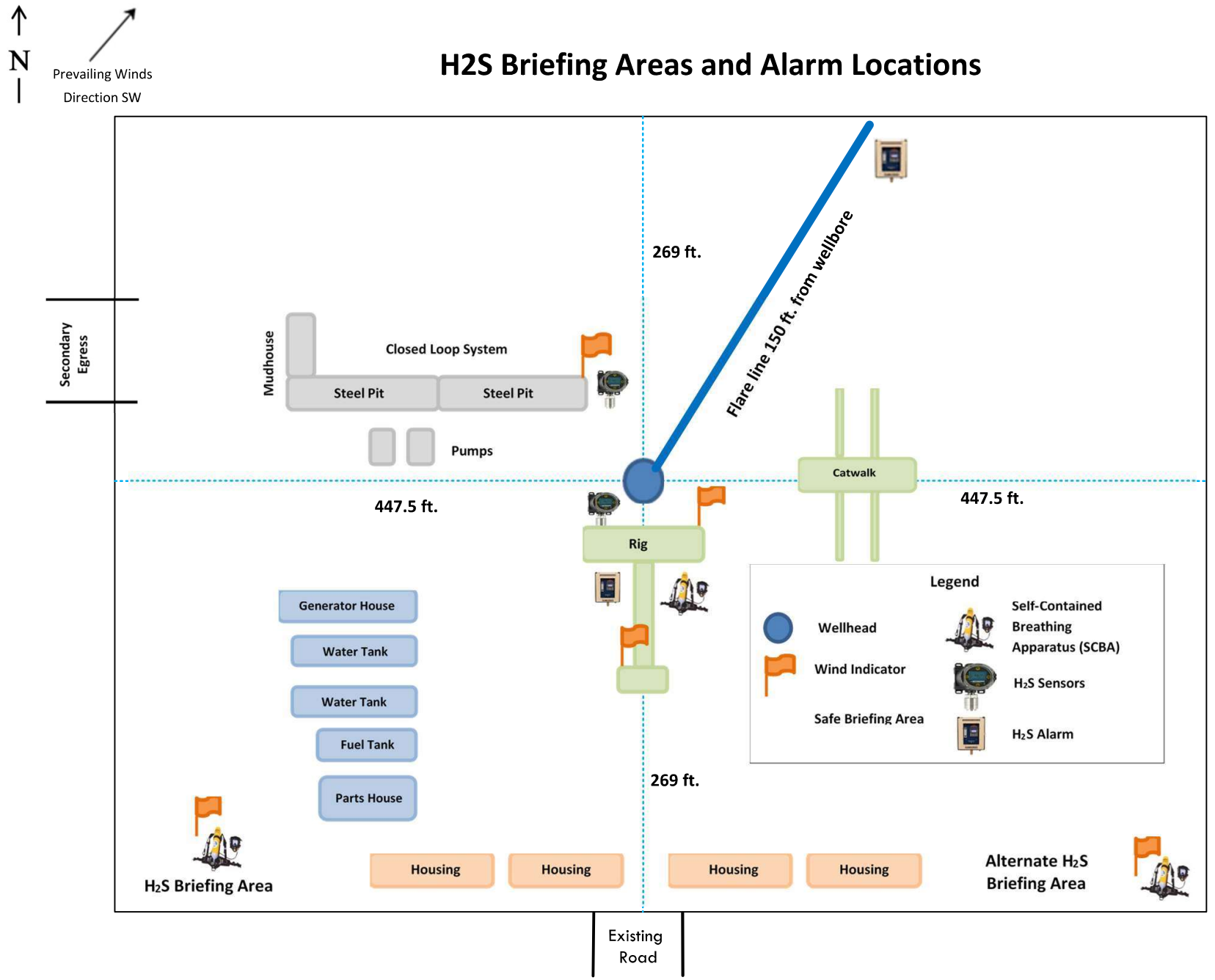
XTO requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement inside the first intermediate casing. If cement reaches the desired height, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

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

Production Casing:

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

H2S Briefing Areas and Alarm Locations



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:** _____
_07_/_29_/_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 20-17 BD 201	TBD	20 T25S R30E	1434 FSL; 1904 FWL	500	125	1,500	900	1,250	400
Poker Lake Unit 20-17 BD 202	TBD	20 T25S R30E	1433 FSL; 1934 FWL	1,100	125	2,750	900	3,750	700
Poker Lake Unit 20-17 BD 203	TBD	20 T25S R30E	1432 FSL; 1964 FWL	500	125	1,500	900	1,250	400
Poker Lake Unit 20-17 BD 204	TBD	20 T25S R30E	1431 FSL; 1994 FWL	1,200	175	3,000	1,200	4,250	900
Poker Lake Unit 20-8 BD 205	TBD	20 T25S R30E	1430 FSL; 2024 FWL	600	150	1,750	1,000	1,500	400
Poker Lake Unit 20-8 BD 206	TBD	20 T25S R30E	1813 FSL; 1604 FEL	1,200	175	3,000	1,200	4,250	900
Poker Lake Unit 20-8 BD 207	TBD	20 T25S R30E	1813 FSL; 1574 FEL	600	150	1,750	1,000	1,500	400
Poker Lake Unit 20-8 BD 208	TBD	20 T25S R30E	1813 FSL; 1544 FEL	1,200	175	3,000	1,200	4,250	900
Poker Lake Unit 20-8 BD 209	TBD	20 T25S R30E	1813 FSL; 1514 FEL	1,300	200	3,500	1,400	4,750	1,100

Poker Lake Unit 20-8 BD 210	TBD	20 T25S R30E	1813 FSL; 1484 FEL	600	75	7,250	2,700	4,750	900
Poker Lake Unit 18-30 BD 200H	TBD	18 T25S R30E	265 FNL; 2395 FEL	1,200	175	3,000	1,200	4,250	900
Poker Lake Unit 18-30 BD 201H	TBD	18 T25S R30E	265 FNL; 2365 FEL	600	150	1,750	1,000	1,500	400
Poker Lake Unit 18-30 BD 202H	TBD	18 T25S R30E	265 FNL; 2335 FEL	1,200	175	3,000	1,200	4,250	900
Poker Lake Unit 18-30 BD 203H	TBD	18 T25S R30E	265 FNL; 2305 FEL	600	150	1,750	1,000	1,500	400
Poker Lake Unit 18-19 BD 204H	TBD	18 T25S R30E	265 FNL; 2275 FEL	1,100	125	2,750	900	3,750	700
Poker Lake Unit 18-19 BD 205H	TBD	18 T25S R30E	265 FNL; 1935 FEL	500	125	1,500	900	1,250	400
Poker Lake Unit 18-19 BD 206H	TBD	18 T25S R30E	265 FNL; 1905 FEL	1,100	125	2,750	900	3,750	700
Poker Lake Unit 18-19 BD 207H	TBD	18 T25S R30E	265 FNL; 1875 FEL	500	125	1,500	900	1,250	400
Poker Lake Unit 18-19 BD 208H	TBD	18 T25S R30E	265 FNL; 1845 FEL	1,100	125	2,750	900	3,750	700
Poker Lake Unit 18-19 BD 209H	TBD	18 T25S R30E	265 FNL; 1815 FEL	500	50	5,500	1,700	4,000	600

IV. Central Delivery Point Name: PLU Brushy Draw 18 (PLU 18-30/18-19) and PLU Brushy Draw 20 (PLU 20-17/20-8)
[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 20-17 BD 201	TBD	August 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 20-17 BD 202	TBD	August 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 20-17 BD 203	TBD	August 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 20-17 BD 204	TBD	August 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 20-8 BD 205	TBD	August 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 20-8 BD 206	TBD	August 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 20-8 BD 207	TBD	August 2025	TBD	TBD	TBD	TBD

Poker Lake Unit 20-8 BD 208	TBD	August 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 20-8 BD 209	TBD	August 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 20-8 BD 210	TBD	August 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 18-30 BD 200H	TBD	October 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 18-30 BD 201H	TBD	October 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 18-30 BD 202H	TBD	October 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 18-30 BD 203H	TBD	October 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 18-19 BD 204H	TBD	October 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 18-19 BD 205H	TBD	October 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 18-19 BD 206H	TBD	October 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 18-19 BD 207H	TBD	October 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 18-19 BD 208H	TBD	October 2025	TBD	TBD	TBD	TBD
Poker Lake Unit 18-19 BD 209H	TBD	October 2025	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 ga thering system; or

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

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

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

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

Section 4 - Notices

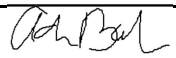
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

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

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

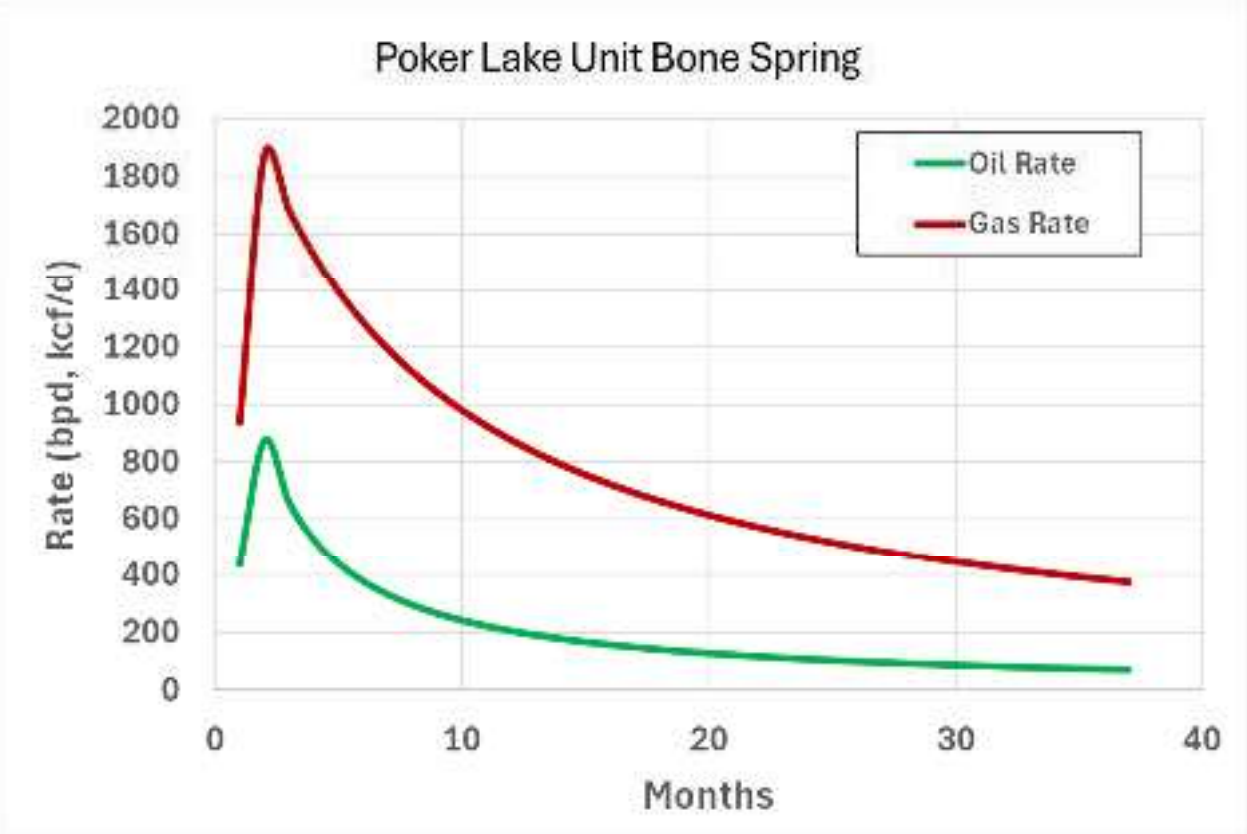
2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural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

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

Signature:	
Printed Name:	Adrian Baker
Title:	Environmental and Regulatory Advisor
E-mail Address:	nicj100@gmail.com
Date:	9/9/2024
Phone:	432-2363808

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.

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

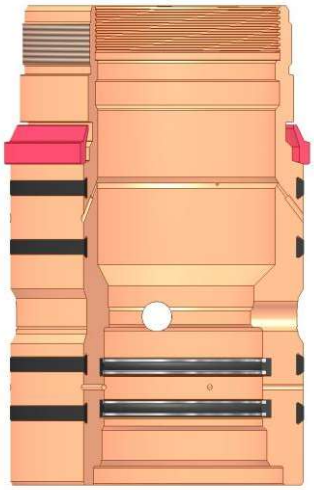
1. Cement Program

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

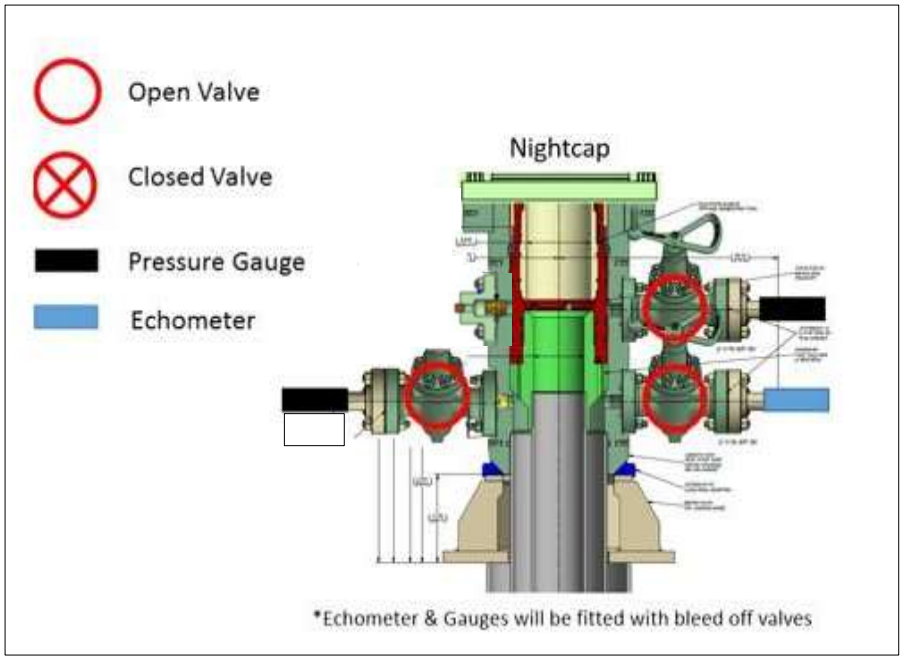
2. Offline Cementing Procedure

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

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

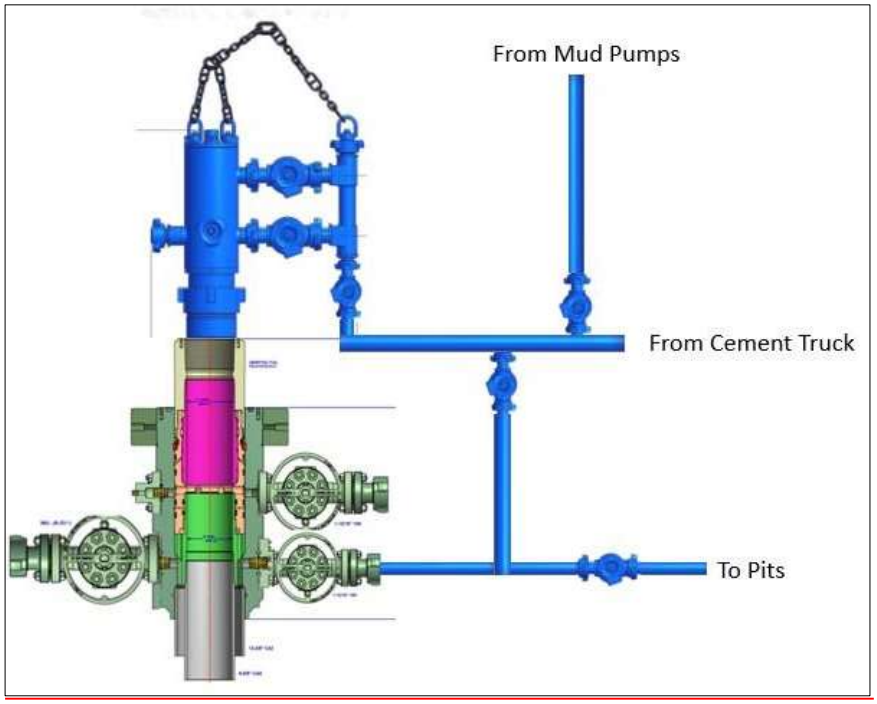


Annular packoff with both external and internal seals



Wellhead diagram during skidding operations

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



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.

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

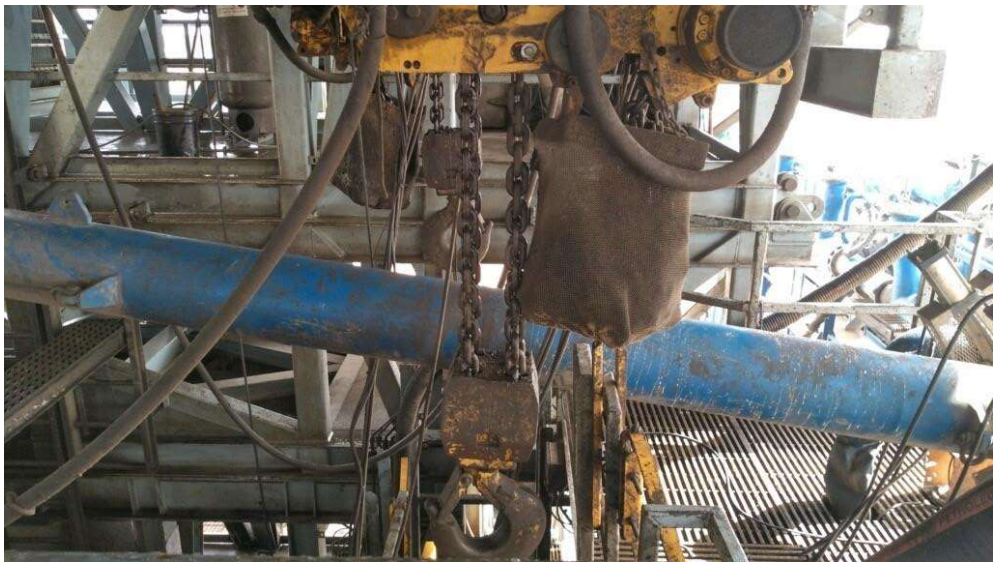


Figure 2: BOP Winch System

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.

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.

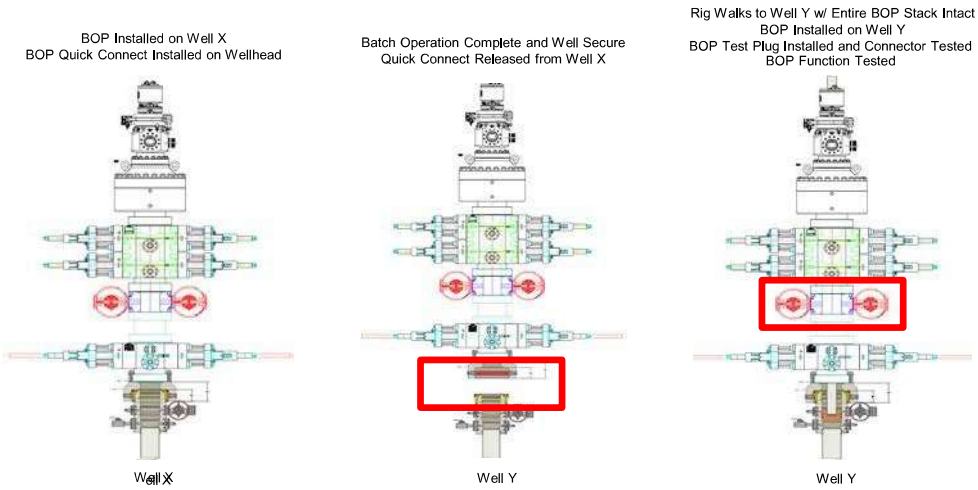
XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 0and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often 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.

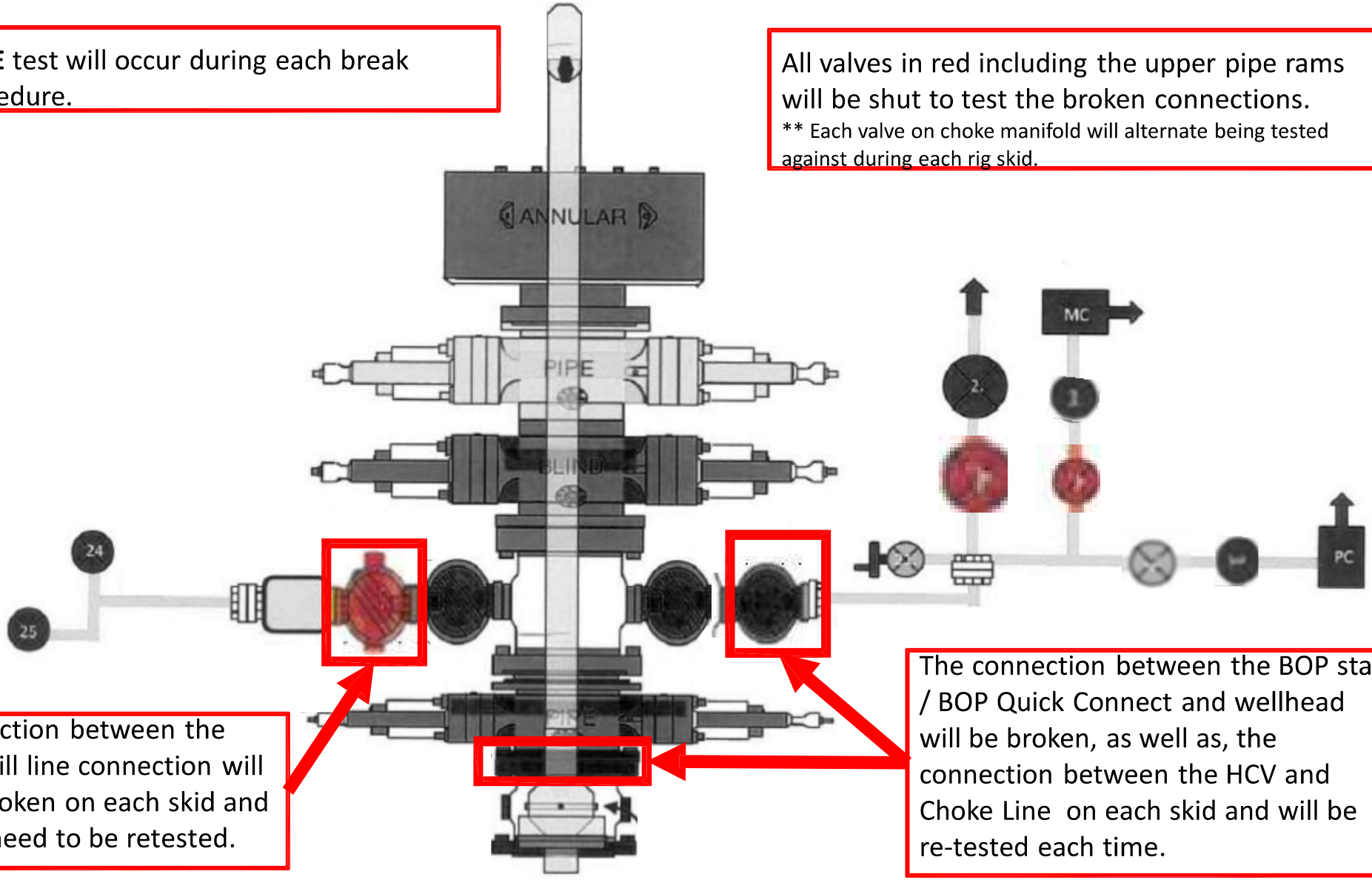
3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.

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 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.

Gates **BLACK GOLD®**

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

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

NEW CHOKE HOSE INSTALLED 02-10-2024

CERTIFICATE OF CONFORMANCE

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

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

SIGNATURE: F. OSMOS

TITLE: QUALITY ASSURANCE

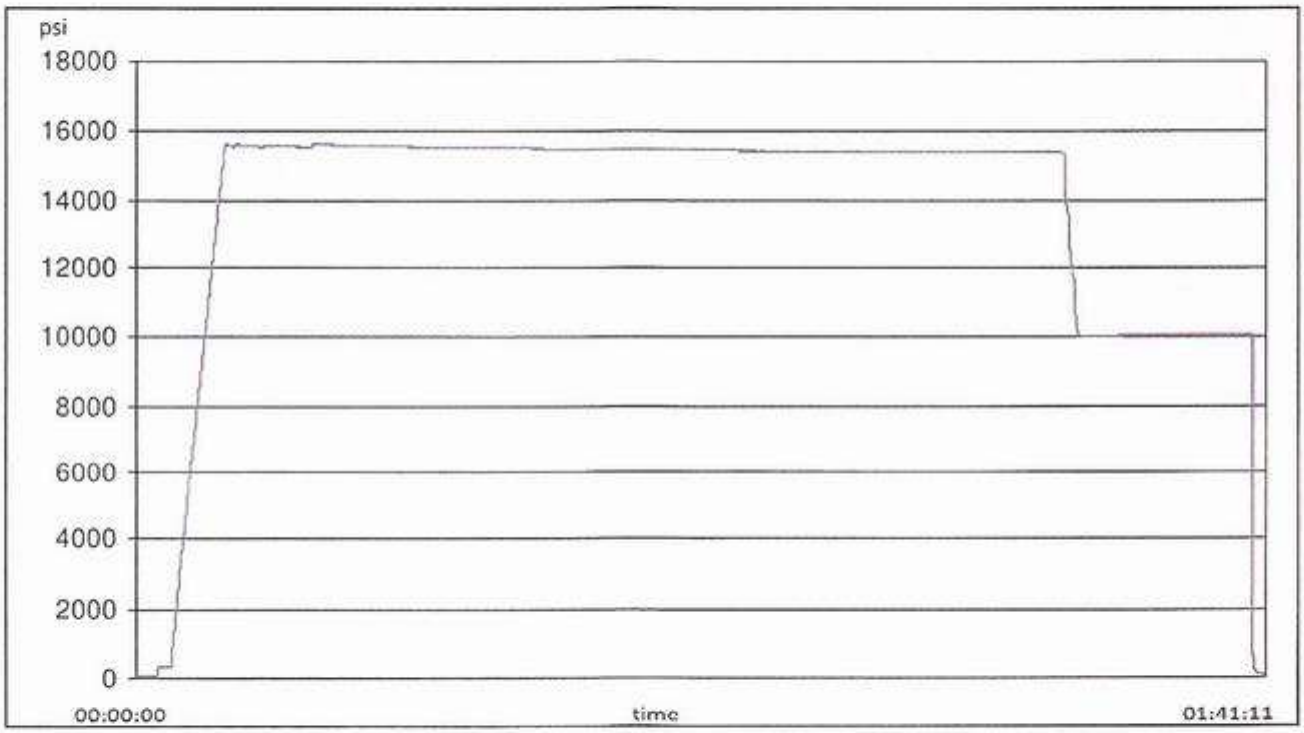
DATE: 1/25/2024

H3-15716

1/25/2024 11:48:06 AM

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				

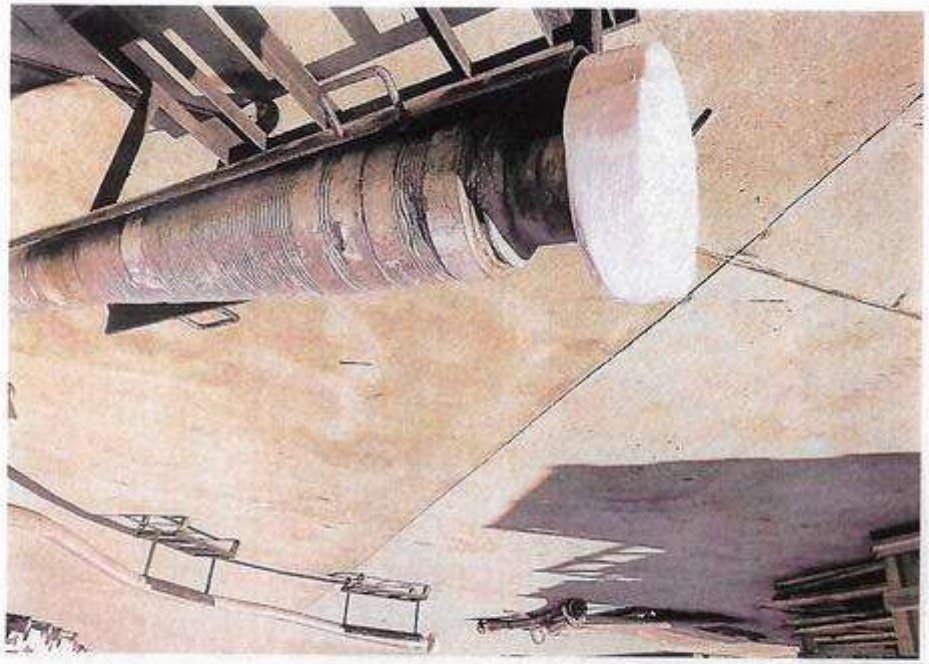


TEST REPORT

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



APD ID: 10400100868 **Submission Date:** 09/23/2024

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 18-30 BD **Well Number:** 203H

Well Type: OIL WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

POKER_LAKE_UNIT_18_30_BD_203H_EXISTING_ROAD_MAP_20250307085154.pdf

Existing Road Purpose: ACCESS **Row(s) Exist?** NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? NO

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Existing Well map Attachment:

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 18-30 BD **Well Number:** 203H

POKER_LAKE_UNIT_18_19___18_30_BD_1Mile_Radius_Map_20240905080544.pdf

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: A. Production Facilities. No New facility is required for the Poker Lake Unit 18-30/18-19 BD wells. Once drilled and completed, the wells will flow to the Poker Lake Unit 18-30/18-19 BD battery. B. Flowlines. No further flowlines disturbance is requested. C. Gas Pipeline. No Gas Sales line is required for this well. No additional surface disturbance is needed. D. Disposal Facilities. Produced water will be hauled from location to a commercial or private disposal facility as needed. E. Flare. - Check in facility plot attached. F. Aboveground Structures. All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted earth-tone colors such as BLM Standard Environmental Color Chart (CC-001: June 2008) that reduce the visual impacts of the built environment. G. Containment Berms. Containment berms will be constructed completely around any production facilities designed. The containment berms will be constructed of compacted 24 caliche, be sufficiently impervious, away from cut or fill areas. H. Electrical. No additional electrical is required for this well. No additional surface disturbance is needed. I. Facility Description- Kindly see the facility plot attached.

Production Facilities map:

618.013003.03_XTO_PLU_18_BD_EXISTING_CVB_FINAL_10_04_2024_20250311091650.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: OTHER

Describe type: Raw produced water

Water source use type: INTERMEDIATE/PRODUCTION CASING

Source latitude:

Source longitude:

Source datum:

City:

Water source permit type: PRIVATE CONTRACT

Water source transport method: PIPELINE

Source land ownership: COMMERCIAL

Source transportation land ownership: FEDERAL

Water source volume (barrels): 550000

Source volume (acre-feet): 70.89120298

Source volume (gal): 23100000

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 18-30 BD **Well Number:** 203H

Water source type: OTHER

Describe type: Fresh Water

Water source use type: DUST CONTROL
SURFACE CASING
STIMULATION

Source latitude: **Source longitude:**

Source datum:

City:

Water source permit type: PRIVATE CONTRACT

Water source transport method: TRUCKING

Source land ownership: COMMERCIAL

Source transportation land ownership: FEDERAL

Water source volume (barrels): 550000 **Source volume (acre-feet):** 70.89120298

Source volume (gal): 23100000

Water source type: RECYCLED

Water source use type: INTERMEDIATE/PRODUCTION CASING

Source latitude: **Source longitude:**

Source datum:

City:

Water source permit type: PRIVATE CONTRACT

Water source transport method: PIPELINE

Source land ownership: COMMERCIAL

Source transportation land ownership: FEDERAL

Water source volume (barrels): 550000 **Source volume (acre-feet):** 70.89120298

Water source and transportation

POKER_LAKE_UNIT_18_30_BD_203H_VICINITY_MAP_20250307111305.pdf

Water source comments: The well will be drilled using a combination of water mud systems as outlined in the Drilling Program. Water composition depends on the mud type needed per formation to protect useable water. Fresh water is trucked to location for use in surface casing drilling and cementing. All other water is either brackish or raw produced water that is all piped from either a pipeline or a pond (32.1483028, -103.922338) to the drilling location. Anticipated water usage for drilling includes an estimated 50,000 barrels of water to drill a horizontal well in a combination of fresh water and brine as detailed in the mud program in

the drilling plans. These volumes are calculated for ~1.5bbls per foot of hole drilled with excess to accommodate any lost circulation or wash out that may occur. Actual water volumes used during operations will depend on the depth of the well, length of horizontal sections, and the losses that may occur during the operation. Temporary water lines will be permitted via a Temporary Water Line Approved Decision letter and/or any necessary Right of Way Grants as needed based on drilling and completion schedules. Well completion is expected to require approximately 550,000 barrels of water per horizontal well. Actual water volumes used during operations will depend on the depth of the well and length of horizontal sections

New water well? N

New Water Well Info

Well latitude: **Well Longitude:** **Well datum:**

Well target aquifer:

Est. depth to top of aquifer(ft): **Est thickness of aquifer:**

Aquifer comments:

Aquifer documentation:

Well depth (ft): **Well casing type:**

Well casing outside diameter (in.): **Well casing inside diameter (in.):**

New water well casing? **Used casing source:**

Drilling method: **Drill material:**

Grout material: **Grout depth:**

Casing length (ft.): **Casing top depth (ft.):**

Well Production type: **Completion Method:**

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: Caliche Pit Location: 32.128730, -103.906308

Construction Materials source location

Section 7 - Methods for Handling

Waste type: DRILLING

Waste content description: CUTTINGS

Amount of waste: 2100 pounds

Waste disposal frequency : One Time Only

Safe containment description: 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.

Safe containmant attachment:

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 18-30 BD **Well Number:** 203H

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

Disposal location description: R360 Environmental Solutions 4507 W Carlsbad Hwy, Hobbs, NM 88240

Waste type: GARBAGE

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

Amount of waste: 250 pounds

Waste disposal frequency : Weekly

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

Safe containmant attachment:

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

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

Waste type: DRILLING

Waste content description: FLUID

Amount of waste: 500 barrels

Waste disposal frequency : One Time Only

Safe containment description: Steel mud boxes

Safe containmant attachment:

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

Disposal location description: R360 Environmental Solutions 4507 W Carlsbad Hwy, Hobbs, NM 88240

Waste type: SEWAGE

Waste content description: Portable, self-contained toilets will be provided for human waste disposal. Upon completion of drilling and completion activities, or as required, the toilet holding tanks will be pumped and the contents there of disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.

Amount of waste: 250 gallons

Waste disposal frequency : Weekly

Safe containment description: Portable, self-contained toilets will be provided for human waste disposal.

Upon completion of drilling and completion activities, or as required, the toilet holding tanks will be pumped and the contents there of disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.

Safe containmant attachment:

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

Disposal type description:

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

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 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 s 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?

Cuttings area liner

Cuttings area liner specifications and installation description

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 18-30 BD **Well Number:** 203H

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

POKER_LAKE_UNIT_18_30_BD_203H_RL_20250307085641.pdf

POKER_LAKE_UNIT_18_30_BD_203H_WELL_SITE_PLAT_20250307085644.pdf

Comments: Multi-well Pad.

Section 10 - Plans for Surface

Type of disturbance: No New Surface Disturbance **Multiple Well Pad Name:** POKER LAKE UNIT 18-19 18-30 BD

Multiple Well Pad Number: A

Recontouring

PLU_18_19___18_30_BD_PAD_A_INTERIM_RECLAMATION_FINAL_UPDATED_20250417123432.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, head cutting, 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) plant community will be established on the site with a density sufficient to control erosion and invasion by non-native plants and to re-establish wildlife habitat or forage production. At a minimum, the established plant community will consist of species included in the seed mix and/or desirable species occurring in the surrounding natural vegetation.
Existing Vegetation at the well pad: Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility.

Existing Vegetation at the well pad

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

Existing Vegetation Community at the road

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

Existing Vegetation Community at the pipeline

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

Existing Vegetation Community at 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 attachment:

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 18-30 BD **Well Number:** 203H

Seed

Seed Table

Seed Summary

Total pounds/Acre:

Seed Type	Pounds/Acre

Seed reclamation

Operator Contact/Responsible Official

First Name: Bobby **Last Name:** Hankins

Phone: (970)629-5213 **Email:** bobby.hankins@exxonmobil.com

Seedbed prep: 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. If the site is to be broadcast seeded, the surface will be left rough enough to trap seed and snow, control erosion, and increase water infiltration.

Seed BMP: If broadcast seeding is to be used and is delayed, final seedbed preparation will consist of contour cultivating to a depth of 4-6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting to break the soil crust and create seed germination micro-sites.
Seed method: Seeding will be conducted no more than two weeks following completion of final seedbed preparation. A certified weed-free seed mix designed by the BLM to meet reclamation standards will be used.

Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment

Weed treatment plan description: Weed control for all phases will be through the use of approved pesticides and herbicides according to applicable State, Federal and local laws.
Weed treatment plan

Monitoring plan description: Monitoring of invasive and noxious weeds will be visual and as-needed. If it is determined additional methods are required to monitor invasive and noxious weeds, appropriate BLM authorities will be contacted with a plan of action for approval prior to implementation. Weed treatment plan

Monitoring plan

Success standards: 100% compliance with applicable regulations.

Pit closure description: There will be no reserve pit as each well will be drilled utilizing a closed loop mud system. The closed loop system will meet the NMOCD requirements 19.15.17.
Pit closure attachment:

Section 11 - Surface

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 18-30 BD **Well Number:** 203H

Disturbance type: EXISTING ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 18-30 BD **Well Number:** 203H

Disturbance type: TRANSMISSION LINE

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Disturbance type: OTHER

Describe: Flowline

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 18-30 BD **Well Number:** 203H

Section 12 - Other

Right of Way needed? N **Use APD as ROW?**

ROW Type(s):

ROW

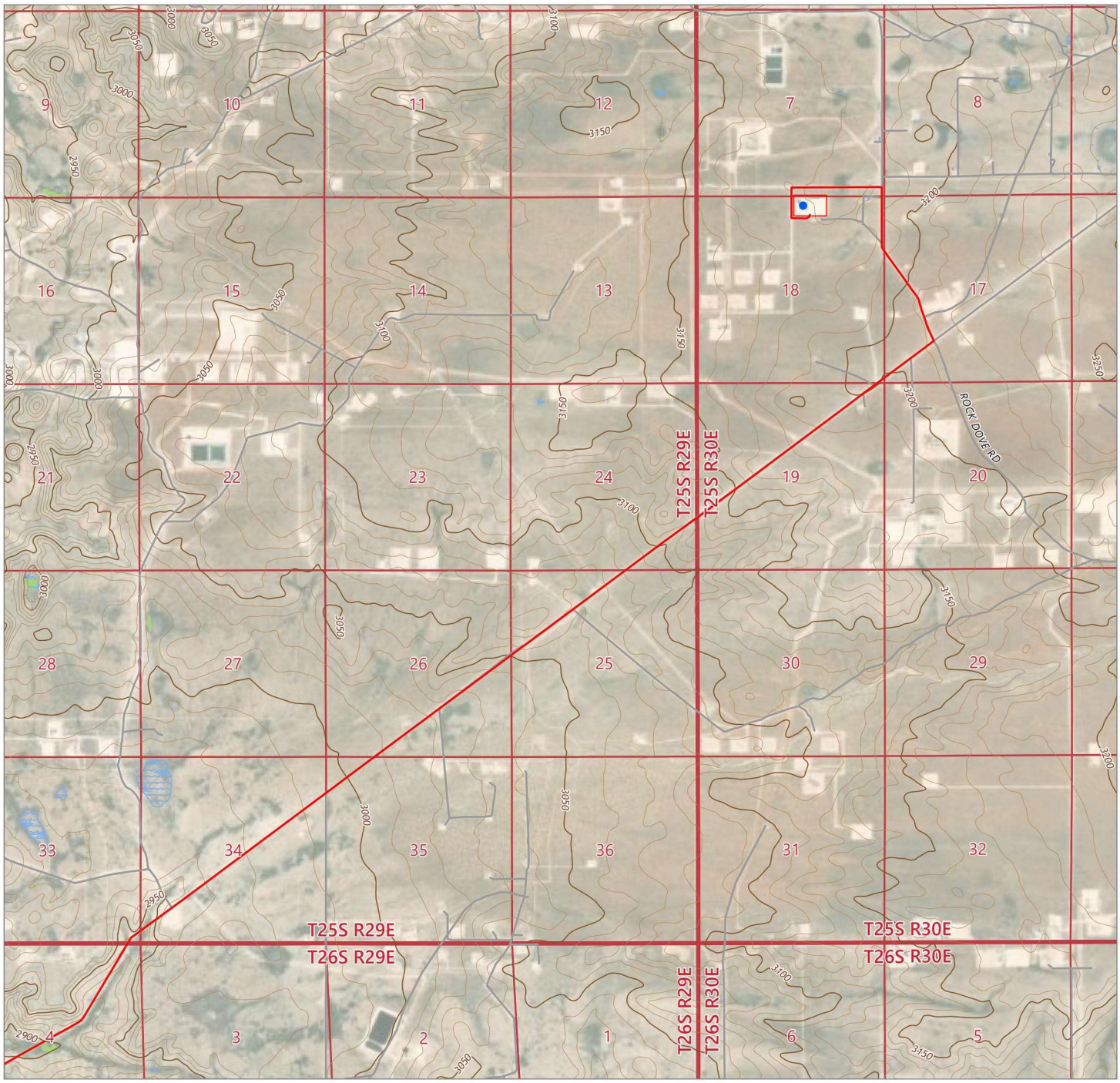
SUPO Additional Information: SUPO written for all wells in section/project area.

Use a previously conducted onsite? Y

Previous Onsite information: The XTO Permian Operating, LLC. representatives and BLM NRS were on location for onsite on 2/15/22.

Other SUPO

PLU_18_19__18_30_BD_SUPO_20250312051653.pdf



DRIVING DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF HIGHWAY 285 AND LONGHORN ROAD, GO NORTHEAST ON LONGHORN ROAD ROAD FOR APPROX. 4.2 MILES. TURN LEFT (NORTHEAST) ON PIPELINE ROAD NUMBER 1 AND GO APPROX. 7.0 MILES. TURN LEFT (NORTH) ON LEASE ROAD AND GO APPROX. 0.9 MILES. TURN LEFT (WEST) ON LEASE ROAD AND GO APPROX. 0.5 MILES. TURN LEFT (SOUTH) ON LEASE ROAD AND GO APPROX. 0.2 MILES. TURN LEFT (EAST) ON LEASE ROAD AND GO APPROX. 0.1 MILES ARRIVING AT THE LOCATION TO THE NORTH.

0 2,500 5,000 10,000
US Feet

N

LEGEND

- POKER LAKE UNIT 18-30 BD 203H WELL LOCATION
- EXISTING WELL PAD
- DRIVING ROUTE

Manhard CONSULTING
505 Pecan Street, Suite 201, Fort Worth, TX 76102
Ph: 972.972.4250 manhard.com
Texas Board of Professional Engineers & Land Surveyors Reg. No. F-10194754 (Surv), F-22053 (Eng)

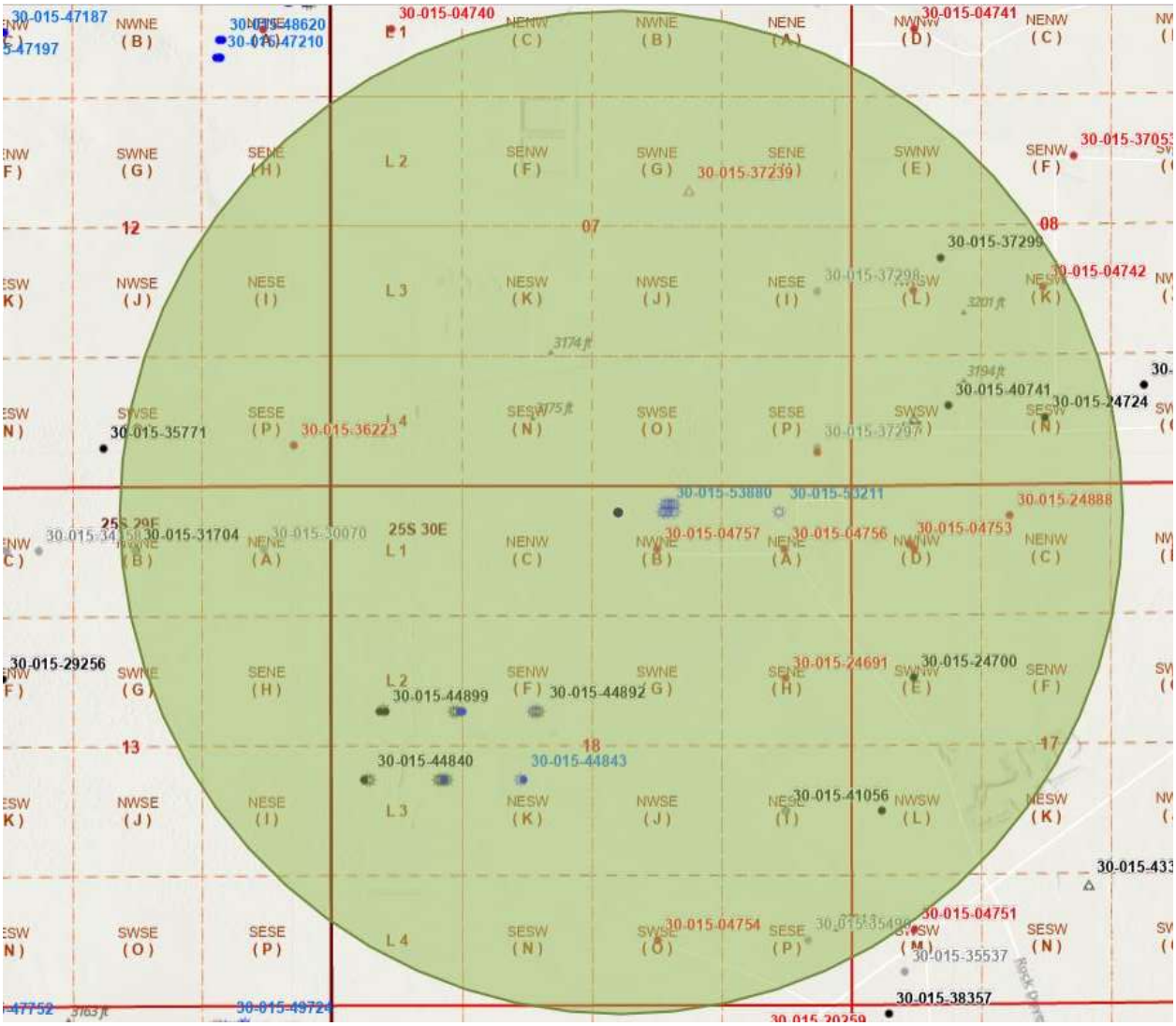
A TOPOGRAPHICAL AND ACCESS ROAD MAP FOR XTO ENERGY, INC. POKER LAKE UNIT 18-30 BD 203H

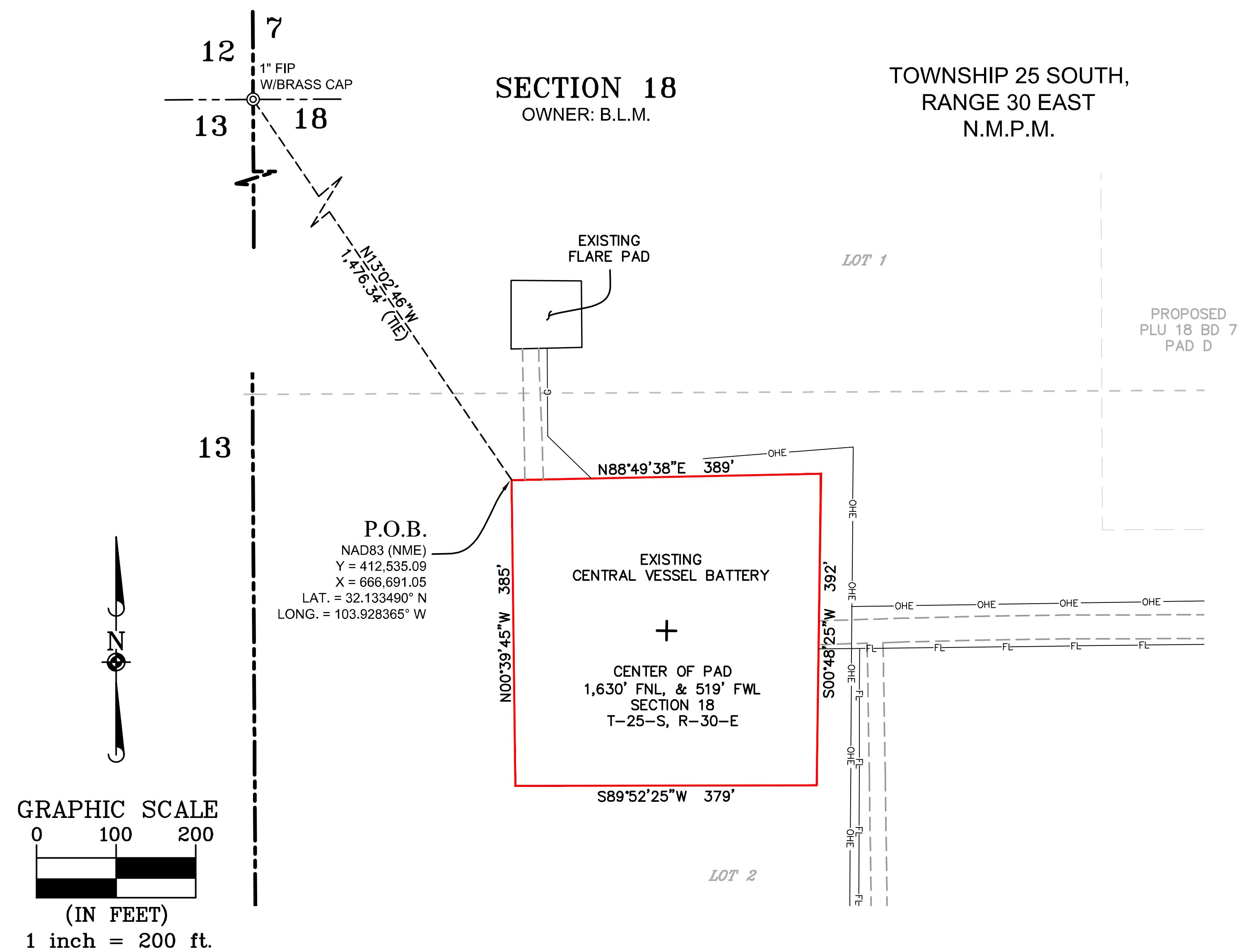
LOCATED 265 FEET FROM THE NORTH LINE AND 2305 FEET FROM THE EAST LINE OF SECTION 18, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

CHECKED BY:	DATE:	SCALE:	PROJECT NUMBER:
AI	6/28/2024	1":5,000'	618.013003.32-12
DRAWN BY:	FIELD CREW:	REVISION NUMBER:	SHEET:
RE	RD	0	3 OF 3

Poker Lake Unit 18-19/18-30 BD

1-Mile Radius Map





GENERAL NOTES

1. BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATES SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983.
2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATA (NAD83).

I,MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PREFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

MARK DILLON HARP
NEW MEXICO PROFESSIONAL LAND SURVEYOR
NO. 23786

MARK DILLON HARP
NEW MEXICO
23786
PROFESSIONAL SURVEYOR

LEGEND

	SECTION LINE
	EXISTING FACILITY PAD
	EXISTING ROAD
—OHE—OHE—	EXISTING OVERHEAD ELECTRIC
—FL—FL—	EXISTING FLOW LINE
	EXISTING FLARE PAD
P.O.B.	POINT OF BEGINNING
◎	FOUND MONUMENT AS NOTED

AN EXISTING PAD EXHIBIT FOR:

XTO PERMIAN OPERATING, LLC.

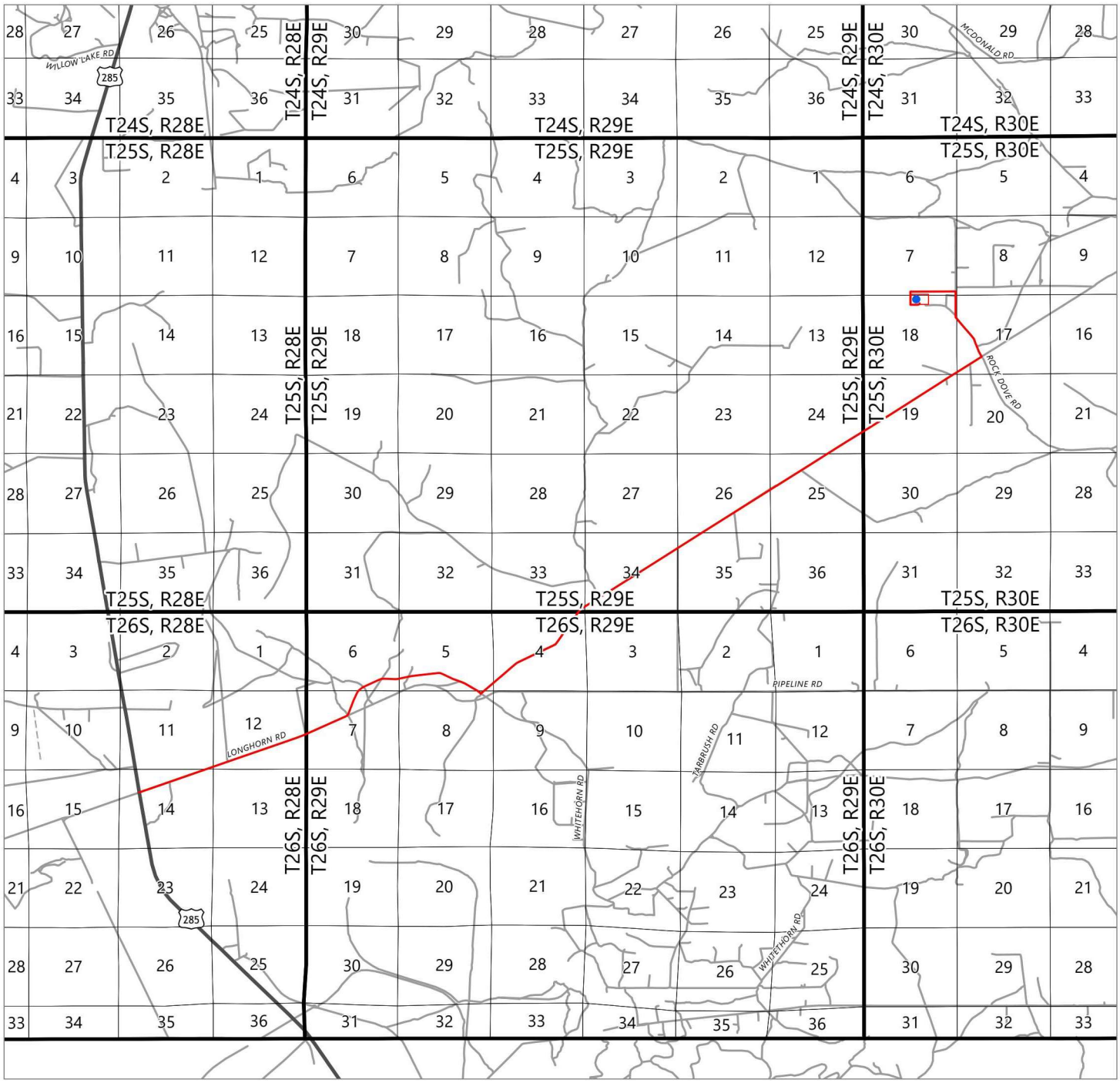
POKER LAKE UNIT 18 BD CENTRAL VESSEL BATTERY

SITUATED IN THE NW/4 OF SECTION 18, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

Manhard CONSULTING
505 Pecan Street, Suite 201, Fort Worth, TX 76102
ph:817.865.5344 manhard.com
Texas Board of Professional Engineers & Land Surveyors Reg. No. F-10194754 (Surv), F-22053 (Eng)

CHECKED BY:	DATE:	SCALE:	PROJECT NO.:
DB	10/4/2024	1" = 200'	618.013003.03
DRAWN BY:	FIELD CREW:	REVISION NO.:	SHEET:
AI	RD	NO	1 OF 1

P:\618.013 XTO Energy – NM\003 Poker Lake Unit\.03 – PLU 18 BD – EDDY\DWG\Exhibits\EXISTING FACILITY PAD.dwg



DRIVING DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF HIGHWAY 285 AND LONGHORN ROAD, GO NORTHEAST ON LONGHORN ROAD ROAD FOR APPROX. 4.2 MILES. TURN LEFT (NORTHEAST) ON PIPELINE ROAD NUMBER 1 AND GO APPROX. 7.0 MILES. TURN LEFT (NORTH) ON LEASE ROAD AND GO APPROX. 0.9 MILES. TURN LEFT (WEST) ON LEASE ROAD AND GO APPROX. 0.5 MILES. TURN LEFT (SOUTH) ON LEASE ROAD AND GO APPROX. 0.2 MILES. TURN LEFT (EAST) ON LEASE ROAD AND GO APPROX. 0.1 MILES ARRIVING AT THE LOCATION TO THE NORTH.

0 5,000 10,000 20,000
US Feet

LEGEND

- POKER LAKE UNIT 18-30 BD 203H WELL LOCATION
- EXISTING WELL PAD
- DRIVING ROUTE

N

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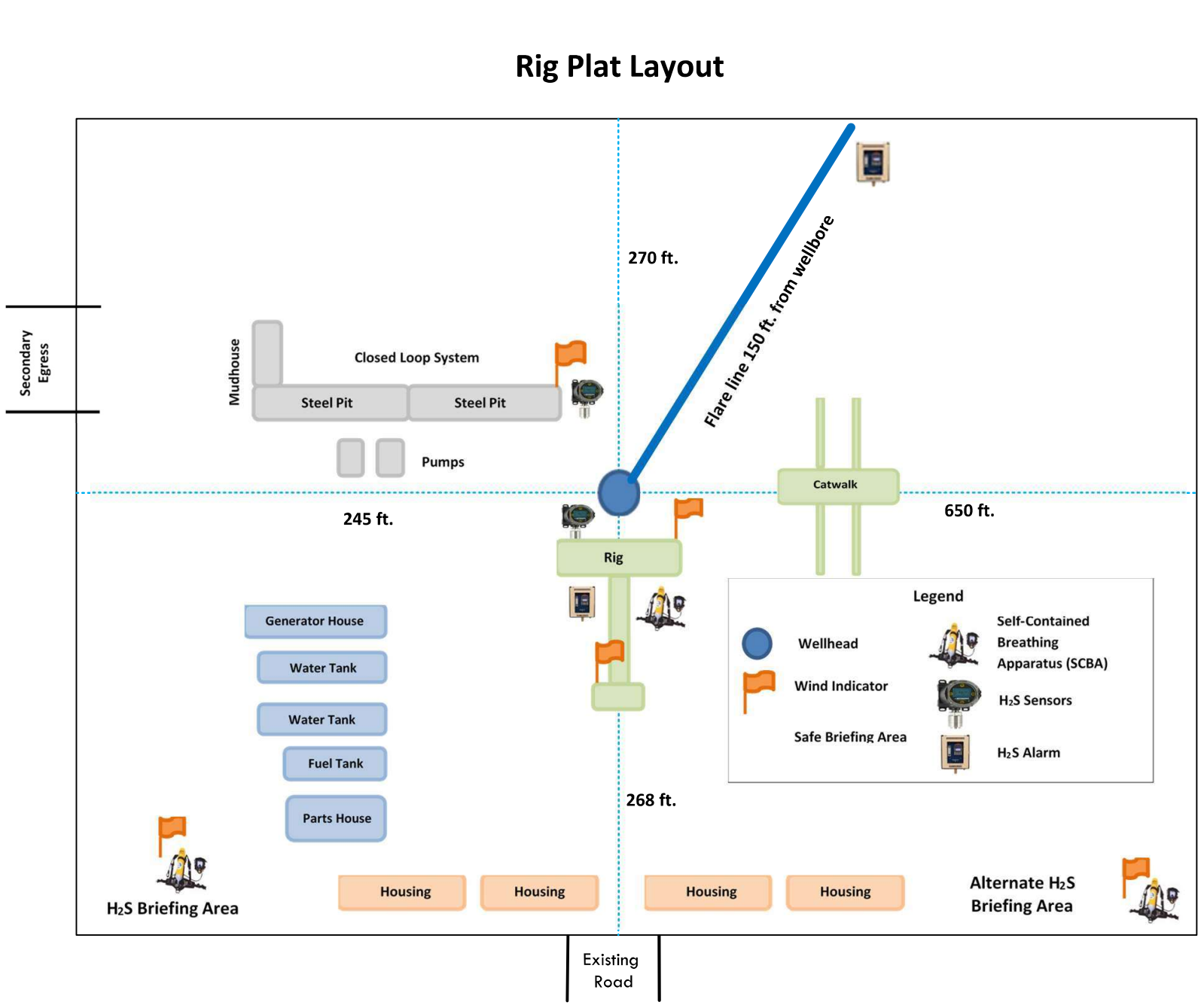
505 Pecan Street, Suite 201, Fort Worth, TX 76102
Ph: 972.972.4250 manhard.com
Texas Board of Professional Engineers & Land Surveyors Reg. No. F-10194754 (Surv), F-22053 (Eng)

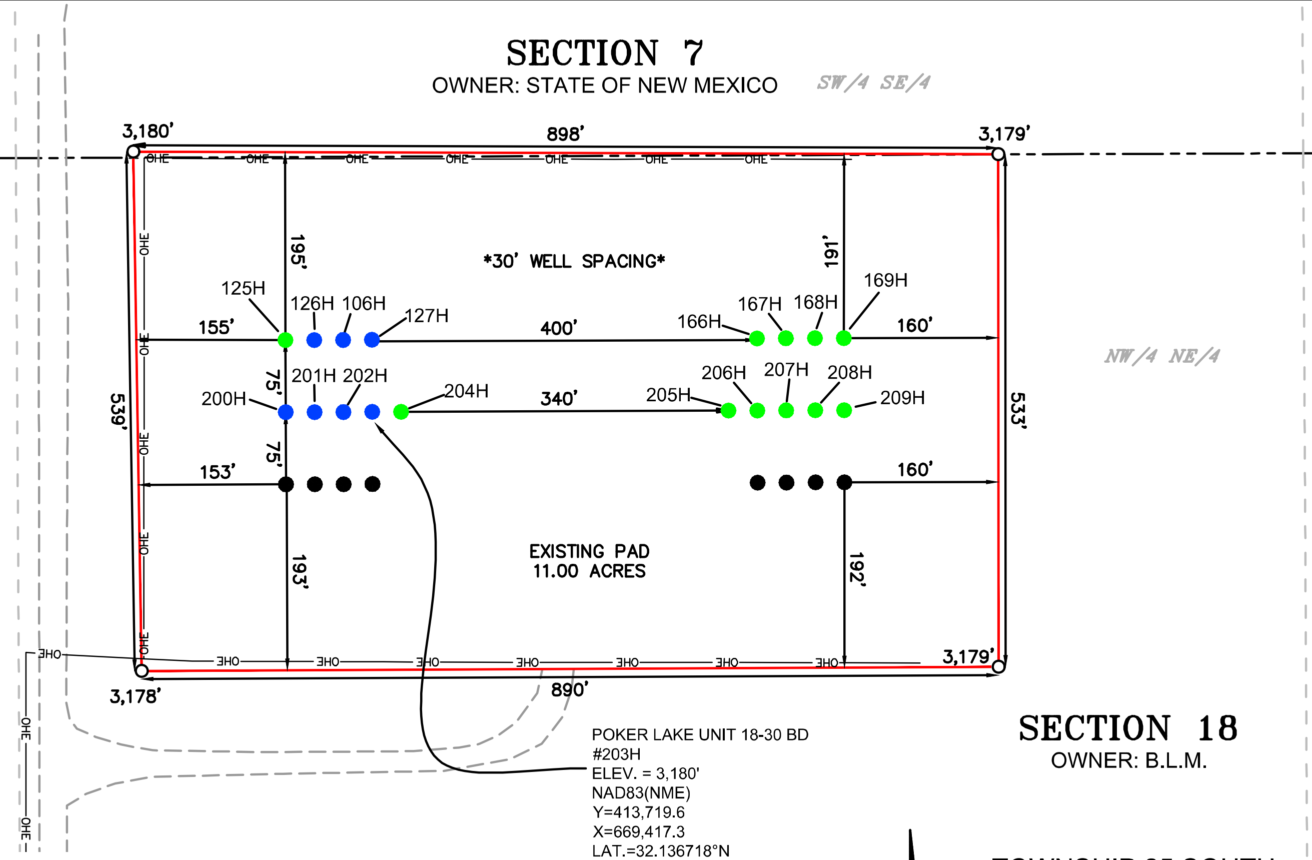
A VICINITY MAP FOR XTO ENERGY, INC.
POKER LAKE UNIT 18-30 BD 203H

LOCATED 265 FEET FROM THE NORTH LINE AND 2305 FEET FROM THE EAST LINE OF SECTION 18, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

CHECKED BY:	DATE:	SCALE:	PROJECT NUMBER:
AI	6/28/2024	1":10,000'	618.013003.32-12
DRAWN BY:	FIELD CREW:	REVISION NUMBER:	SHEET:
RE	RD	0	2 OF 3

Rig Plat Layout





TOWNSHIP 25 SOUTH,
RANGE 30 EAST
N.M.P.M.

N

GRAPHIC SCALE
0 100 200
(IN FEET)
1 inch = 200 ft.

DRIVING DIRECTION TO LOCATION

FROM THE INTERSECTION OF LONGHORN ROAD AND PIPELINE ROAD NUMBER 1, HEAD NORTHEAST ON PIPELINE ROAD NUMBER ONE AND GO APPROX. 7.0 MILES. TURN LEFT (NORTHWEST) ONTO LEASE ROAD AND GO APPROX. 0.9 MILES. TURN LEFT (WEST) ONTO LEASE ROAD AND GO APPROX. 0.5 MILES. TURN LEFT (SOUTH) ONTO LEASE ROAD AND GO APPROX. 0.2 MILES.TURN LEFT (EAST) ONTO LEASE ROAD AND GO APPROX. 0.1 MILES AND THE LOCATION IS TO THE NORTH.

GENERAL NOTES

1. BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATES SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983.
2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATA (NAD83).
3. REFER TO TOPOGRAPHICAL AND ACCESS ROAD MAP FOR PROPOSED ROAD LOCATION.

I,MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PREFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

MARK DILLON HARP
NEW MEXICO PROFESSIONAL LAND SURVEYOR
NO. 23786

MARK DILLON HARP
NEW MEXICO
23786
PROFESSIONAL SURVEYOR

LEGEND

— - - —	SECTION LINE
red line	EXISTING WELL PAD
blue dot	PERMITTED PLU 18-30 BD WELL LOCATION
green dot	PERMITTED PLU 18-19 BD WELL LOCATION
black dot	TBD WELL LOCATION
- - - -	EXISTING ROAD
—OHE—OHE—	EXISTING OVERHEAD ELECTRIC

Manhard CONSULTING

505 Pecan Street, Suite 201, Fort Worth, TX 76102
ph:817.865.5344 manhard.com
Texas Board of Professional Engineers & Land Surveyors Reg. No. F-10194754 (Surv), F-22053 (Eng)

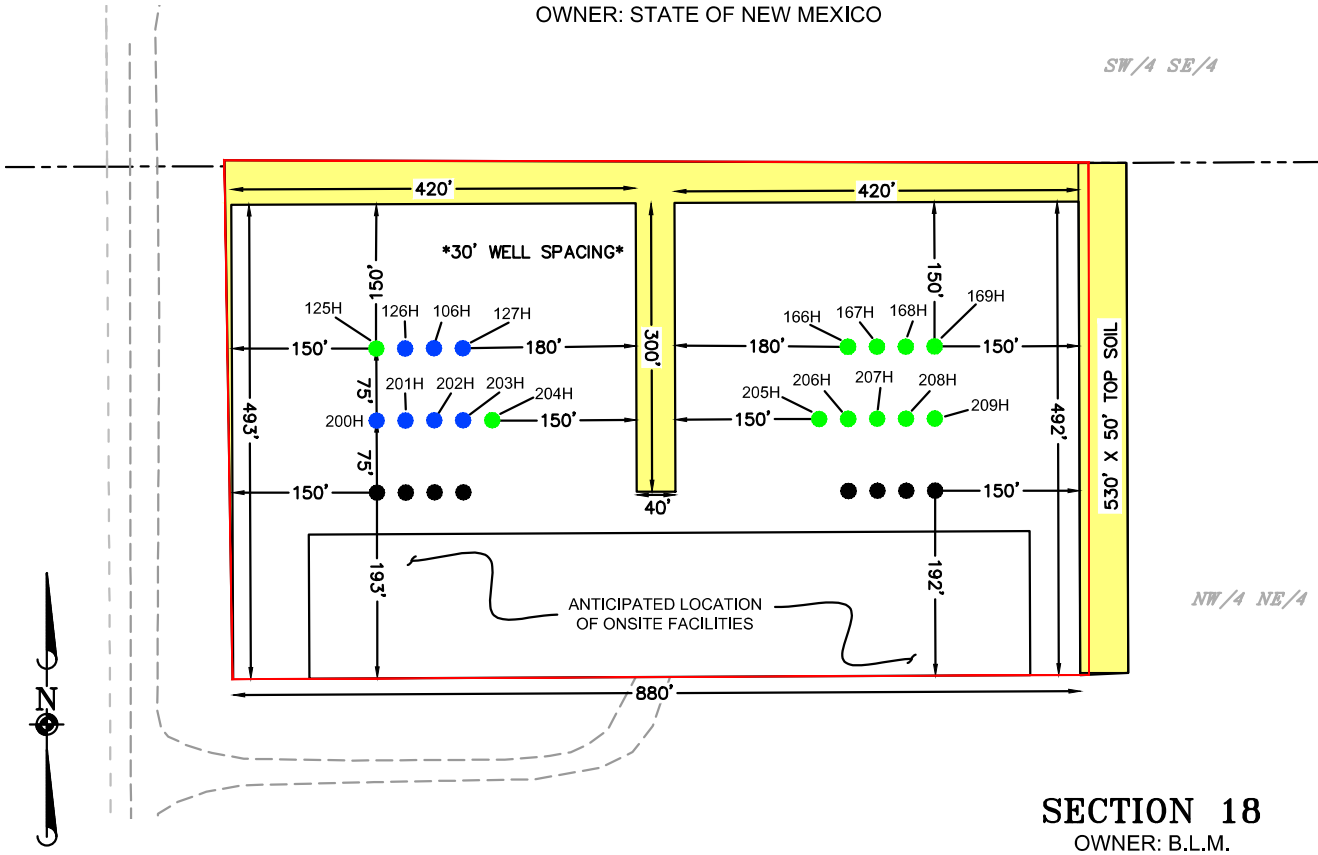
A WELL SITE PLAN FOR XTO PERMIAN OPERATING, LLC
POKER LAKE UNIT 18-19/18-30 BD EXISTING PAD A

POKER LAKE UNIT 18-30 BD 203H IS LOCATED 265 FEET FROM THE NORTH LINE AND 2,305 FEET FROM THE EAST LINEOF SECTION 18, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

CHECKED BY:	DATE:	SCALE:	PROJECT NO.:
DB	09/06/2024	1" = 200'	618.013003.32-12
DRAWN BY:	FIELD CREW:	REVISION NO.:	SHEET:
AI	SR	4	1 OF 3

P:\618.013 XTO Energy – NM\003 Poker Lake Unit\32 – PLU 18–19,18–30 BD– EDDY\Wells\–12 – PLU 18–30 BD 203H\DWG\PACKET\203H WELL SITE.dwg

SECTION 7
OWNER: STATE OF NEW MEXICO



SECTION 18
OWNER: B.L.M.

GRAPHIC SCALE
0 100 200
(IN FEET)
1 inch = 200 ft.

TOWNSHIP 25 SOUTH,
RANGE 30 EAST
N.M.P.M.

GENERAL NOTES

1. BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATES SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983.
2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATA (NAD83).

ACREAGE INFORMATION	
INITIAL CONSTRUCTED DISTURBED AREA	= 11.486 ACRES
INTERIM RECLAMATION	= 1.810 ACRES
TOTAL PAD ACREAGE AFTER IR =	9.676 ACRES

LEGEND

- SECTION LINE
- EXISTING PAD
- EXISTING ROAD
- TBD WELL LOCATION
- PERMITTED WELL LOCATION PLU 18-30 BD
- PERMITTED WELL LOCATION PLU 18-19 BD
- INTERIM RECLAMATION AREA

I,MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PREFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

MARK DILLON HARP
NEW MEXICO PROFESSIONAL LAND SURVEYOR
NO. 23786

MARK DILLON HARP
NEW MEXICO
23786
PROFESSIONAL SURVEYOR

AN INTERIM RECLAMATION DIAGRAM FOR:
XTO PERMIAN OPERATING, LLC.
POKER LAKE UNIT 18-19/18-30 BD EXISTING PAD "A"

PAD CENTER IS LOCATED 290 FEET FROM THE NORTH LINE AND 2,105 FEET FROM THE EAST LINE OF SECTION 18, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

Manhard CONSULTING
505 Pecan Street, Suite 201, Fort Worth, TX 76102
ph: 817.865.5344 manhard.com
Texas Board of Professional Engineers & Land Surveyors Reg. No. F-10194754 (Surv), F-22053 (Eng)

CHECKED BY:	DATE:	SCALE:	PROJECT NO.:
DB	4/14/2025	1" = 200'	618.013003.32
DRAWN BY:	FIELD CREW:	REVISION NO.:	SHEET:
AI	SR	2	1 OF 1

Well Site Locations

The results of the Poker Lake Unit 18-30/18-19 BD Development Program will develop economic quantities of oil and gas in the Poker Lake Unit 18-30/18-19 BD with multiple primary formations targeted. Well locations are determined based on cross-section variations and details. Locations will be selected to minimize the likelihood of encountering faults and/or drilling hazards while still targeting suitably productive zones.

If drilling results in an unproductive well, the well will be plugged and abandoned as soon as practical after the conclusion of production testing. Productive wells may be shut-in temporarily for BLM authorization for production activities and facilities.

NAME	N/S FOOTAGE CALL	N/S LINE	E/W FOOTAGE CALL	E/W LINE
POKER LAKE UNIT 18-30 BD 200H	265	FNL	2,395	FEL
POKER LAKE UNIT 18-30 BD 201H	265	FNL	2,365	FEL
POKER LAKE UNIT 18-30 BD 202H	265	FNL	2,335	FEL
POKER LAKE UNIT 18-30 BD 203H	265	FNL	2,305	FEL
POKER LAKE UNIT 18-19 BD 204H	265	FNL	2,275	FEL
POKER LAKE UNIT 18-19 BD 205H	265	FNL	1,935	FEL
POKER LAKE UNIT 18-19 BD 206H	265	FNL	1,905	FEL
POKER LAKE UNIT 18-19 BD 207H	265	FNL	1,875	FEL
POKER LAKE UNIT 18-19 BD 208H	265	FNL	1,845	FEL
POKER LAKE UNIT 18-19 BD 209H	265	FNL	1,815	FEL

Surface Use Plan

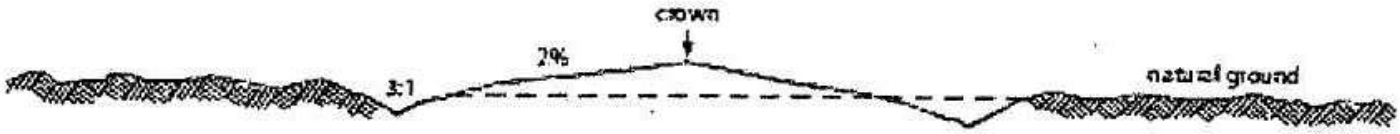
1. **Existing Roads**

   A. FROM THE INTERSECTION OF HIGHWAY 285 AND LONGHORN ROAD, GO NORTHEAST ON LONGHORN ROAD ROAD FOR APPROX. 4.2 MILES. TURN LEFT (NORTHEAST) ON PIPELINE ROAD NUMBER 1 AND GO APPROX. 7.0 MILES. TURN LEFT (NORTH) ON LEASE ROAD AND GO APPROX. 0.9 MILES. TURN LEFT (WEST) ON LEASE ROAD AND GO APPROX. 0.5 MILES. TURN LEFT (SOUTH) ON LEASE ROAD AND GO APPROX. 0.2 MILES. TURN LEFT (EAST) ON LEASE ROAD AND GO APPROX. 0.1 MILES ARRIVING AT THE LOCATION TO THE NORTH.

   . Transportation maps identifying existing roads that will be used to access the project area are included from Manhard. marked as, 'Topographical and Access Road Map'.

   B. Transportation Plan identifying existing roads that will be used to access the project area is included from Manhard. marked as, Topographical and Access Road Map. All equipment and vehicles will be confined to the routes shown on the Topographical and Access Map as provided by Manhard. Maintenance of the access roads will continue until abandonment and reclamation of the well pads is completed.

2. **New or Upgraded Access Roads**
   A. **New Roads**. There are no new roads necessary to access the Poker Lake Unit 18-30/18-19 BD location.
   B. **Well Pads**. The well pads selected for development will determine which existing roads will be upgraded.
   C. **Anticipated Traffic**. After well completion, travel to each well site will include one lease operator truck. The Central Battery will require one lease operator truck to continually travel to each well site to monitor the working order of the wells and to check well equipment for proper operation. Additional traffic will include one maintenance truck periodically throughout the year for pad upkeep and weed removal. Well service trips will include only the traffic necessary to work on the wells or provide chemical treatments periodically and as needed throughout the year.
   D. **Routing**. All equipment and vehicles will be confined to the travel routes laid out in the vicinity map provided by Manhard unless otherwise approved by the BLM and applied for by XTO PERMIAN OPERATING LLC
   E. **Road Dimensions**. The maximum width of the driving surface of new roads will be 14 feet. The roads will be crowned and ditched with a 2% slope from the tip of the crown to the edge of the driving surface. The ditches will be 1 foot deep with 3:1 slope. The driving surface will be made of 8" rolled and compacted caliche.



Level Ground Section

   F. **Surface Material**. Surface material will be native caliche. The average grade of all roads will be approximately 3%.
   G. **Fence Cuts**: No.
   H. **Fences**: No.
   I. **Cattle Guards**: No.
   J. **Turnouts**: No.
   K. **Culverts**: No.
   L. **Cuts and Fills**: look at attached plats.
   M. **Topsoil**. Approximately 6 inches of topsoil (root zone) will be stripped from the existing access road prior to any further construction activity. The topsoil that was stripped will be spread along the edge of the road and within the ditch. The topsoil will be seeded with the proper seed mix designated by the BLM.
   N. **Maintenance**. The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along with access road route.
   O. **Drainage**. The access road and associated drainage structures will be constructed and maintained in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, The Gold Book, Fourth Edition and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction.

3. **Location of Existing Wells**
   A. See attached 1-mile radius well map.

4. Location of Existing Production Facilities

A. **Production Facilities**. No New facility is required for the Poker Lake Unit 18-30/18-19 BD wells. Once drilled and completed, the wells will flow to the Poker Lake Unit 18-30/18-19 BD battery.

B. **Flowlines**. No further flowlines disturbance is requested.

C. **Gas Pipeline**. No Gas Sales line is required for this well. No additional surface disturbance is needed.

D. **Disposal Facilities**. Produced water will be hauled from location to a commercial or private disposal facility as needed.

E. **Flare**. - Check in facility plot attached.

F. **Aboveground Structures**. All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted earth-tone colors such as BLM Standard Environmental Color Chart (CC-001: June 2008) that reduce the visual impacts of the built environment.

G. **Containment Berms**. Containment berms will be constructed completely around any production facilities designed. The containment berms will be constructed of compacted 24" caliche, be sufficiently impervious, away from cut or fill areas.

H. **Electrical**. No additional electrical is required for this well. No additional surface disturbance is needed.

I. **Facility Description**- Kindly see the facility plot attached.

5. Location and Types of Water Supply

The well will be drilled using a combination of water mud systems as outlined in the Drilling Program. Water composition depends on the mud type needed per formation to protect useable water. Fresh water is trucked to location for use in surface casing drilling and cementing. All other water is either brackish or raw produced water that is all piped from either a pipeline or a pond (32.1483028, -103.922338) to the drilling location.

Anticipated water usage for drilling includes an estimated 50,000 barrels of water to drill a horizontal well in a combination of fresh water and brine as detailed in the mud program in the drilling plans. These volumes are calculated for ~1.5bbls per foot of hole drilled with excess to accommodate any lost circulation or wash out that may occur. Actual water volumes used during operations will depend on the depth of the well, length of horizontal sections, and the losses that may occur during the operation.

Temporary water lines will be permitted via a Temporary Water Line Approved Decision letter and/or any necessary Right of Way Grants as needed based on drilling and completion schedules. Well completion is expected to require approximately 550,000 barrels of water per horizontal well. Actual water volumes used during operations will depend on the depth of the well and length of horizontal sections

6. Construction Activities – NO NEW Construction

Construction, reclamation, and/or routine maintenance will not be conducted during periods when the soil conditions for construction could lead to impacts to the surrounding environment, or when watershed damage is likely to occur because of these activities.

Any construction material that may be required for surfacing of the drill pad and access road will be from a contractor having a permitted source of materials within the general area. No construction materials will be removed from federal lands without prior approval from the appropriate surface management agency.

Well Pad. No New construction

Caliche Pit Location: 32.128730, -103.906308

7. Methods for Handling Waste

- **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 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 s until sold.
- **Sewage**. Portable, self-contained toilets will be provided for human waste disposal. Upon completion of drilling and completion activities, or as required, the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- **Garbage and Other Waste Materials.** All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an approve sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location.
- **Debris**. Immediately after removal of the drilling rig, all debris and other waste materials not contained in the trash cage will be cleaned and removed from the well location. No potential adverse materials or substances will be left on location.
- **Hazardous Materials.**
    i. All drilling wastes identified as hazardous substances by the Comprehensive Environmental Response Compensation Liability Act (CERCLA) removed from the location and not reused at another drilling location will be disposed of at a hazardous waste facility approved by the U.S. Environmental Protection Agency (EPA).
    ii. XTO PERMIAN OPERATING LLC and its contractors will comply with all applicable Federal, State and local laws and regulations, existing or hereafter enacted promulgated, regarding any hazardous material, as defined in this paragraph, that will be used, produced, transported or stored on the oil and gas lease. “Hazardous material” means any substance, pollutant or contaminant that is listed as hazardous under the CERCLA of 1980, as amended, 42 U.S.C 9601 et seq., and its regulation. The definition of hazardous substances under CERLCA includes any ‘hazardous waste” as defined in the RCRA of 1976, as amended, 42 U.S.C. 6901 et seq., and its regulations. The term hazardous material also includes any nuclear or nuclear by-product material as defined by the Atomic Energy Act of 1954, as amended, 42 U.C.S. 2011 et seq. The term does not include petroleum, including crude oil or any fraction thereof that is not otherwise specifically listed or designated as a hazardous substance under CERCLA Section 101 (14) U.S.C. 9601 (14) nor does the term include natural gas.
    iii. No hazardous substances or wastes will be stored on the location after completion of the well.
    iv. Chemicals brought to location will be on the Toxic Substance Control Act (TSCA) approved inventory list.
    v. All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in Notice to Lessees (NTL) 3A will be reported to the BLM Carlsbad Field Office. Major events will be reported verbally within 24 hours, followed by a written report within 15 days. “Other than Major Events” will be reported in writing within 15 days.

8. Ancillary Facilities

A. **Ancillary Facilities**. No off-pad ancillary facilities are planned during the exploration phase including, but not limited to campsites, airstrips or staging areas.

9. Well Site Layout

Rig Plat Diagrams: There is 1 multi-well pad in the Poker Lake Unit 18-30/18-19 BD lease. This will allow enough space for cuts and fills, topsoil storage, and storm water control. Interim reclamation of these pads is anticipated after the drilling and completion of all wells on the pad. A well site layout for the pad is attached.

- Pad A is a 26-well pad expected to be 898'x539'.

Closed-Loop System: There will be no reserve pit as each well will be drilled utilizing a closed loop mud system. The closed loop system will meet the NMOCD requirements 19.15.17.

V-Door Orientation: These pads were staked with multiple v-door orientations. The following list is from West to East in accordance with the staked section and as agreed upon with Zane Kirsch, BLM Natural Resource Specialist, present at on-site inspection.

- Pad A has a V-Door Orientation: East

All equipment and vehicles will be confined to the approved disturbed areas of this APD (i.e., access road, well pad and topsoil storage areas

10. Plans for Surface Reclamation:

XTO Permian Operating, LLC. requests a variance from interim reclamation until all drilling and completion activities have been finished on the pads as these are multi-well pads where drilling and completion will be consecutive with the other wells on the pad. Once activities are completed, XTO Permian Operating, LLC. will coordinate interim reclamation with the appropriate BLM personnel or use the following plan:

Non-Commercial Well (Not Productive), Interim & Final Reclamation:

Definition: Reclamation includes disturbed areas where the original landform and a natural vegetative community will be restored, and it is anticipated the site will not be disturbed for future development.

Reclamation Standards:

The portions of the pad not essential to production facilities or space required for workover operations will be reclaimed and seeded as per BLM requirements for interim reclamation. (See Interim Reclamation plats attached).

All equipment and trash will be removed, and the surfacing material will be removed from the well pad and road and transported to the original caliche pit or used to maintain other roads. The location will then be ripped and seeded.

The original stockpiled 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.

A self-sustaining, vigorous, diverse, native (or otherwise approved) plant community will be established on the site with a density sufficient to control erosion and invasion by non-native plants and to re-establish wildlife habitat or forage production. At a minimum, the established plant

community will consist of species included in the seed mix and/or desirable species occurring in the surrounding natural vegetation.

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, head cutting, slumping, and deep or excessive rills (greater than 3 inches) are not observed.

The site will be free of State or County listed noxious weeds, oil field debris and equipment, and contaminated soil. Invasive and non-native noxious weeds will be controlled.

Seeding:

- Seedbed Preparation: 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. If the site is to be broadcast seeded, the surface will be left rough enough to trap seed and snow, control erosion, and increase water infiltration.
- If broadcast seeding is to be used and is delayed, final seedbed preparation will consist of contour cultivating to a depth of 4-6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting to break the soil crust and create seed germination micro-sites.
- Seed Application. Seeding will be conducted no more than two weeks following completion of final seedbed preparation. A certified weed-free seed mix designed by the BLM to meet reclamation standards will be used.
- If the site is harrowed or dragged, seed will be covered by no more than 0.25 inch of soil.

11. **Surface Ownership**
    - The Poker Lake Unit 18-30/18-19 BD is 100% of the surface is under the administrative jurisdiction of the Bureau of Land Management.
    - The surface is multiple use with the primary uses of the region for grazing and to produce oil and gas.

12. **Other Information**

Surveying

- **Well Sites**. Well pad locations have been staked. Surveys of the Existing access roads and well pad locations have been completed by Manhard, a registered professional land surveyor. Center stake surveys with access roads have been completed on State and Federal lands with Zane Kirsch, Bureau of Land Management Natural Resource Specialist in attendance, on February 15, 2022.
- **Cultural Resources – Archaeology**: A Class III Cultural Resources Examination has been completed by Boone Archaeological Services. A PA payment has been made for the well pad, access road, and overhead electrical.
- **Dwellings and Structures**. There are no dwellings or structures within 2 miles of this location.

Soils and Vegetation

- **Environmental Setting**. Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility.

- **Traffic**. No truck traffic will be operated during periods or in areas of saturated ground when surface rutting could occur. The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along the access road route.

- **Water**. There is no permanent or live water in the immediate or within the project area.

13. Bond Coverage

Bond Coverage is Nationwide. Bond Number: COB000050

Onsite- The XTO Permian Operating, LLC. representatives and BLM NRS were on location for onsite on 2/15/22.

Operator's Representatives:

The XTO PERMIAN OPERATING LLC representatives for ensuring compliance of the surface use plan are listed below:

Surface:

Robert Bartels
Project Execution Planner
XTO Energy, Incorporated
6401 Holiday Hill Road Bldg 5
Midland, Texas 79701
robert.e.bartels@exxonmobil.com
Phone: (406) 478-3671

AFMSS

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

PWD Data Report
05/19/2025

APD ID: 10400100868 **Submission Date:** 09/23/2024

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 18-30 BD **Well Number:** 203H

Well Type: OIL WELL **Well Work Type:** Drill

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined

Would you like to utilize Lined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Other PWD Surface Owner Description:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit

Pit liner description:

Pit liner manufacturers

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule

Lined pit reclamation description:

Lined pit reclamation

Leak detection system description:

Leak detection system

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 18-30 BD **Well Number:** 203H

Lined pit Monitor description:

Lined pit Monitor

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information

Section 3 - Unlined

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres): **PWD surface owner:**

Other PWD Surface Owner Description:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule

Unlined pit reclamation description:

Unlined pit reclamation

Unlined pit Monitor description:

Unlined pit Monitor

Do you propose to put the produced water to beneficial use?

Beneficial use user

Estimated depth of the shallowest aquifer (feet):

Precipitated Solids Permit

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 18-30 BD **Well Number:** 203H

State

Unlined Produced Water Pit Estimated

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information

Section 4 -

Would you like to utilize Injection PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Other PWD Surface Owner Description:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number: **Injection well name:**

Assigned injection well API number? **Injection well API number:**

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection

Underground Injection Control (UIC) Permit?

UIC Permit

Section 5 - Surface

Would you like to utilize Surface Discharge PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Other PWD Surface Owner Description :

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 18-30 BD **Well Number:** 203H

Section 6 -

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

PWD Surface Owner Description:

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements

AFMSS

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

Bond Info Data

05/19/2025

APD ID: 10400100868

Submission Date: 09/23/2024

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 18-30 BD

Well Number: 203H

Well Type: OIL WELL

Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Bond

Federal/Indian APD: FED

BLM Bond number: COB000050

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

Well Name: POKER LAKE UNIT 18-30 BD

Well Location: T25S / R30E / SEC 18 / NWNE / 32.136718 / -103.919543

County or Parish/State: EDDY / NM

Well Number: 203H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC065705B

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number: NMNM71016X

US Well Number:

Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2869636

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 08/26/2025

Time Sundry Submitted: 09:47

Date proposed operation will begin: 09/09/2025

Procedure Description: XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include SHL, KOP, FTP, LTP, BHL, proposed total depth and pool APD ID: 10400100868 FROM: TO: SHL: 265’ FNL & 2305’ FEL OF SECTION 18-T25S-R30E 285’ FNL & 2305’ FEL OF SECTION 18-T25S-R30E KOP: 265’ FNL & 2305’ FEL OF SECTION 18-T25S-R30E 210’ FNL & 1810’ FEL OF SECTION 18-T25S-R30E FTP: 100' FNL & 1474' FEL OF SECTION 18-T25S-R30E 210' FNL & 1810' FEL OF SECTION 18-T25S-R30E LTP: 2556’ FNL & 1474' FEL OF SECTION 30-T25S-R30E 2556’ FNL & 1847' FEL OF SECTION 30-T25S-R30E BHL: 2646’ FNL & 1474’ FEL OF SECTION 30-T25S-R30E 2646’ FNL & 1847’ FEL OF SECTION 30-T25S-R30E The proposed total depth is changing FROM: 23007’MD; 10072’TVD TO: 22134’MD; 9323’TVD. Pool code changes FROM: PIERCE CROSSING, BONE SPRING, EAST (96473) TO: CORRAL CANYON; BONE SPRING, SOUTH (13354) There is no new surface disturbance.

NOI Attachments

Procedure Description

Poker_Lake_Unit_18_30_BD_203H_Sundry_Docs___New_20250915122326.pdf

Well Name: POKER LAKE UNIT 18-30 BD

Well Location: T25S / R30E / SEC 18 / NWNE / 32.136718 / -103.919543

County or Parish/State: EDDY / NM

Well Number: 203H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC065705B

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number: NMNM71016X

US Well Number:

Operator: XTO PERMIAN OPERATING LLC

Conditions of Approval

Additional

253018_Poker_Lake_Unit_18_30_BD_203H_09_17_2025_SUNDRY_ID_2869636_20250917084653.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: MANOJ VENKATESH

Signed on: SEP 15, 2025 12:24 PM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Analyst

Street Address: 22777 SPRINGWOODS VILLAGE PARKWAY

City: SPRING **State:** TX

Phone: (720) 539-1673

Email address: MANOJ.VENKATESH@EXXONMOBIL.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: CWALLS@BLM.GOV

Disposition: Approved

Disposition Date: 09/18/2025

Signature: Chris Walls

Form 3160-5
(October 2024)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

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

1. Type of Well
☐ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.

2. Name of Operator

9. API Well No.

3a. Address

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

10. Field and Pool or Exploratory Area

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*

11. Country or Parish, State

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

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

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

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

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by

Title

Date

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

Office

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.
PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.
ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.
EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.
Response to this request is mandatory.
The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

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

Additional Information

Additional Remarks

The proposed total depth is changing FROM: 23007MD; 10072TVD TO: 22134MD; 9323TVD.

Pool code changes FROM: PIERCE CROSSING, BONE SPRING, EAST (96473) TO: CORRAL CANYON; BONE SPRING, SOUTH (13354)

There is no new surface disturbance.

Location of Well

0. SHL: NWNE / 265 FNL / 2305 FEL / TWSP: 25S / RANGE: 30E / SECTION: 18 / LAT: 32.136718 / LONG: -103.919543 (TVD: 0 feet, MD: 0 feet)
PPP: NWNE / 0 FSL / 1475 FEL / TWSP: 25S / RANGE: 30E / SECTION: 19 / LAT: 32.122837 / LONG: -103.916837 (TVD: 10072 feet, MD: 15800 feet)
PPP: NWNE / 100 FNL / 1474 FEL / TWSP: 25S / RANGE: 30E / SECTION: 18 / LAT: 32.137172 / LONG: -103.916859 (TVD: 10072 feet, MD: 10548 feet)
BHL: SWNE / 2646 FNL / 1474 FEL / TWSP: 25S / RANGE: 30E / SECTION: 30 / LAT: 32.100953 / LONG: -103.916803 (TVD: 10072 feet, MD: 23007 feet)

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

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-015 -57274	13354	CORRAL CANYON; BONE SPRING, SOUTH

Property Code	Property Name	Well Number
333648	POKER LAKE UNIT 18-30 BD	203H

ORGID No.	Operator Name	Ground Level Elevation
373075	XTO PERMIAN OPERATING, LLC.	3,181'

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	18	25 S	30 E		285' FNL	2,305' FEL	32.136663	-103.919543	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
G	30	25 S	30 E		2,646' FNL	1,847' FEL	32.100950	-103.918008	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
400	DEFINING		N	U

Order Numbers.

Well setbacks are under Common Ownership: ☒ Yes ☐ No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	18	25 S	30 E		210' FNL	1,810' FEL	32.136869	-103.917944	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	18	25 S	30 E		210' FNL	1,810' FEL	32.136869	-103.917944	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
G	30	25 S	30 E		2,556' FNL	1,847' FEL	32.101198	-103.918009	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type	Ground Floor Elevation:
NMNM105422429	☒ Horizontal ☐ Vertical	3,181'

OPERATOR CERTIFICATIONS

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

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

Samantha Weis 9/15/2025

Signature Date

Samantha Weis

Printed Name

samantha.r.bartnik@exxonmobil.com

Email Address

SURVEYOR CERTIFICATIONS

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

I, TIM C. PAPPAS, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21209, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

9 Sept 2025

TIM C. PAPPAS
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 21209

TIM C. PAPPAS NEW MEXICO 21209 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

Certificate Number	Date of Survey
TIM C. PAPPAS 21209	09/09/2025

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

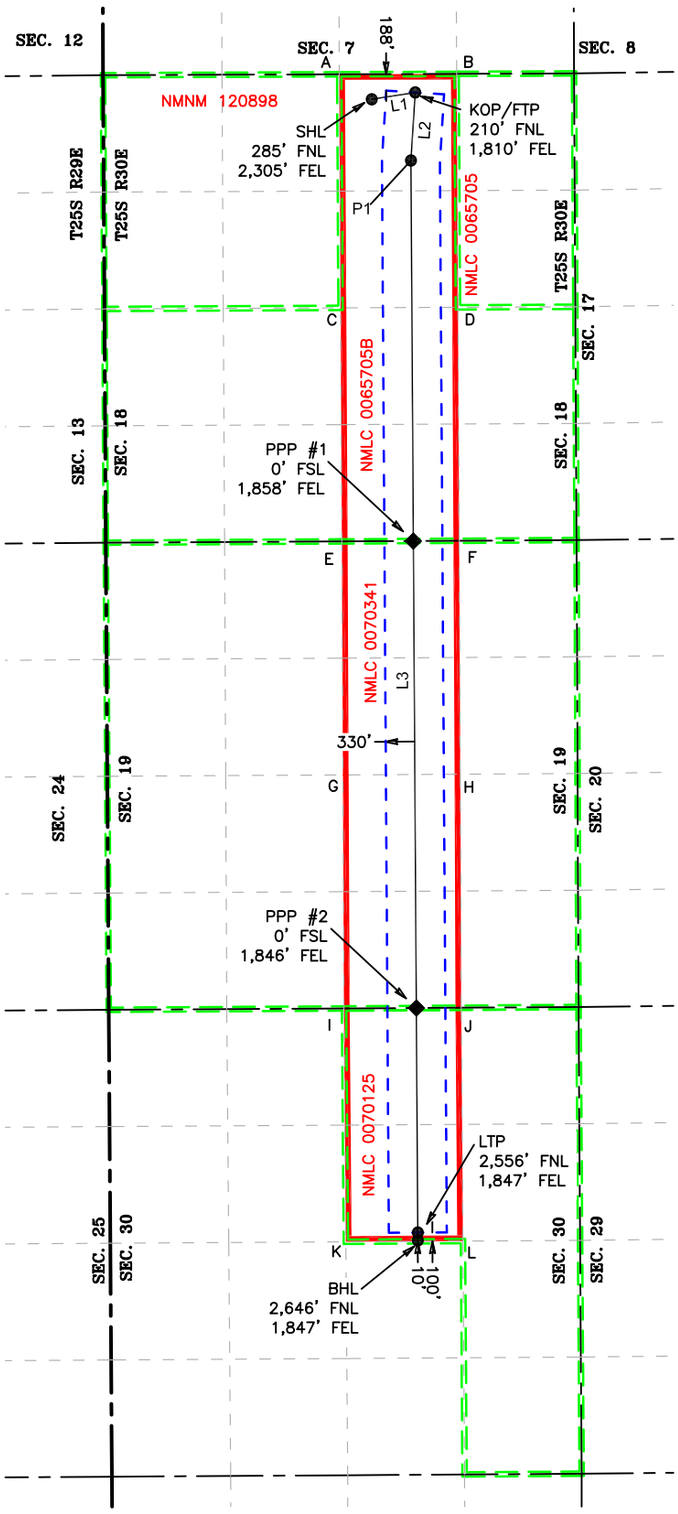
FSC INC SURVEYORS+ENGINEERS
2205 Walnut Street - Columbus, TX 78934
Ph: 817.349.9800 - Fax: 979.732.5271
TBPE Firm 17957 | TBPLS Firm 10000100
www.fscinc.net

DATE:	9-9-2025	PROJECT NO:	2025060196
DRAWN BY:	LM	SCALE:	
CHECKED BY:	WL	SHEET:	1 OF 2
FIELD CREW:	IR	REVISION:	1

ACREAGE DEDICATION PLATS

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

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



LEGEND

- SECTION LINE
- PROPOSED WELLBORE
- NEW MEXICO MINERAL LEASE LINE
- 330' BUFFER
- DEDICATED ACREAGE

COORDINATE TABLE					
SHL (NAD 83 NME)			LTP (NAD 83 NME)		
Y =	413,699.6	N	Y =	400,800.0	N
X =	669,417.3	E	X =	669,941.9	E
LAT. =	32.136663	°N	LAT. =	32.101198	°N
LONG. =	103.919543	°W	LONG. =	103.918009	°W
KOP/FTP (NAD 83 NME)			BHL (NAD 83 NME)		
Y =	413,776.5	N	Y =	400,710.0	N
X =	669,912.1	E	X =	669,942.6	E
LAT. =	32.136869	°N	LAT. =	32.100950	°N
LONG. =	103.917944	°W	LONG. =	103.918008	°W
P1 (NAD 83 NME)					
Y =	413,001.3	N			
X =	669,863.6	E			
LAT. =	32.134738	°N			
LONG. =	103.918110	°W			
SHL (NAD 27 NME)			LTP (NAD 27 NME)		
Y =	413,641.0	N	Y =	400,741.7	N
X =	628,232.8	E	X =	628,757.0	E
LAT. =	32.136538	°N	LAT. =	32.101073	°N
LONG. =	103.919058	°W	LONG. =	103.917526	°W
KOP/FTP (NAD 27 NME)			BHL (NAD 27 NME)		
Y =	413,717.9	N	Y =	400,651.7	N
X =	628,727.6	E	X =	628,757.7	E
LAT. =	32.136744	°N	LAT. =	32.100825	°N
LONG. =	103.917459	°W	LONG. =	103.917525	°W
P1 (NAD 27 NME)					
Y =	412,942.7	N			
X =	628,679.1	E			
LAT. =	32.134614	°N			
LONG. =	103.917625	°W			
PPP #1 (NAD 83 NME)			PPP #1 (NAD 27 NME)		
Y =	408,671.1	N	Y =	408,612.6	N
X =	669,891.4	E	X =	628,706.8	E
LAT. =	32.122835	°N	LAT. =	32.122710	°N
LONG. =	103.918074	°W	LONG. =	103.917590	°W
PPP #2 (NAD 83 NME)			PPP #2 (NAD 27 NME)		
Y =	403,355.9	N	Y =	403,297.6	N
X =	669,925.5	E	X =	628,740.7	E
LAT. =	32.108224	°N	LAT. =	32.108099	°N
LONG. =	103.918030	°W	LONG. =	103.917547	°W

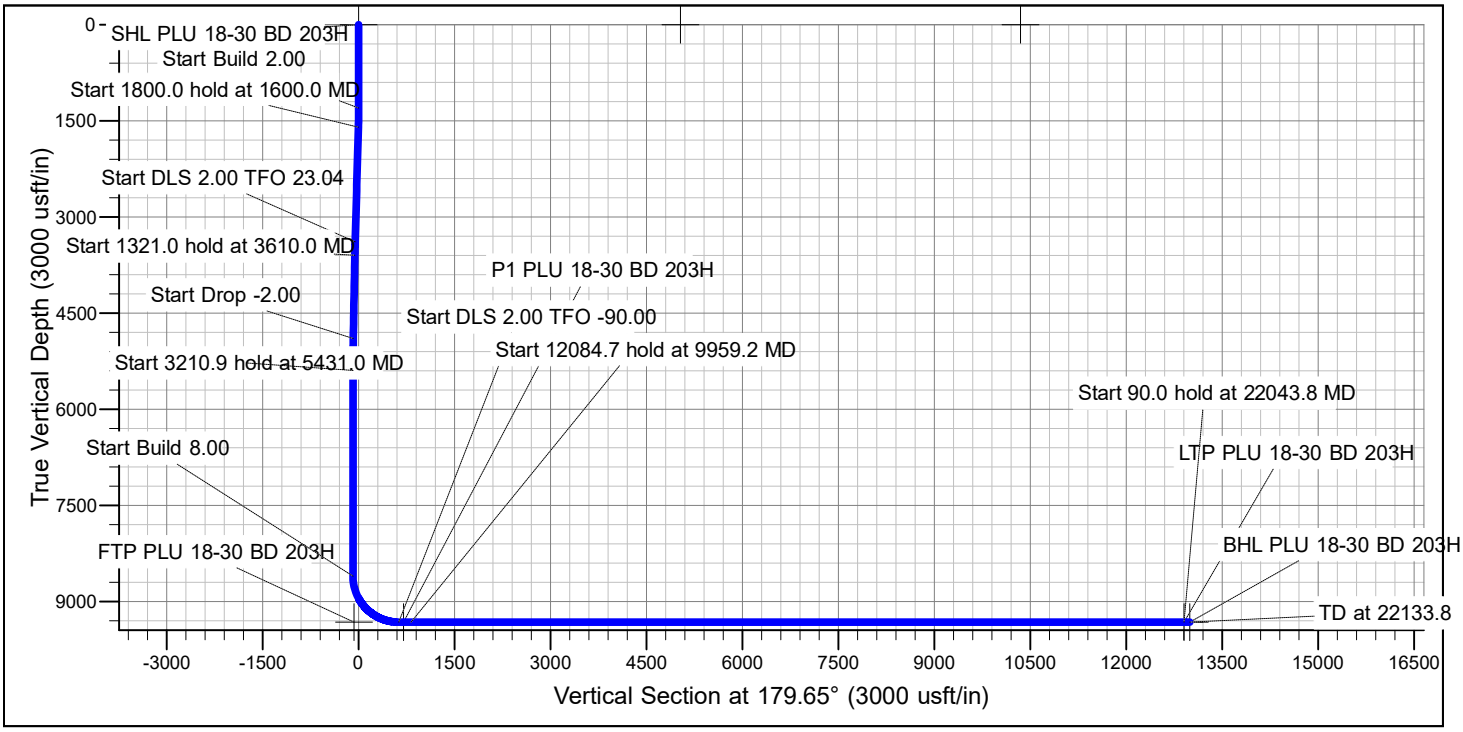
CORNER COORDINATES (NAD83 NME)					
A - Y =	413,983.3	N	A - X =	669,047.3	E
B - Y =	413,988.3	N	B - X =	670,384.1	E
C - Y =	411,325.0	N	C - X =	669,062.2	E
D - Y =	411,331.2	N	D - X =	670,398.7	E
E - Y =	408,666.5	N	E - X =	669,077.2	E
F - Y =	408,674.0	N	F - X =	670,413.3	E
G - Y =	406,009.2	N	G - X =	669,089.3	E
H - Y =	406,017.0	N	H - X =	670,425.2	E
I - Y =	403,350.7	N	I - X =	669,101.5	E
J - Y =	403,359.1	N	J - X =	670,436.6	E
K - Y =	400,695.0	N	K - X =	669,122.6	E
L - Y =	400,703.1	N	L - X =	670,456.1	E
CORNER COORDINATES (NAD27 NME)					
A - Y =	413,924.7	N	A - X =	627,862.8	E
B - Y =	413,929.7	N	B - X =	629,199.6	E
C - Y =	411,266.5	N	C - X =	627,877.7	E
D - Y =	411,272.7	N	D - X =	629,214.1	E
E - Y =	408,608.0	N	E - X =	627,892.6	E
F - Y =	408,615.5	N	F - X =	629,228.6	E
G - Y =	405,950.8	N	G - X =	627,904.6	E
H - Y =	405,958.6	N	H - X =	629,240.5	E
I - Y =	403,292.4	N	I - X =	627,916.7	E
J - Y =	403,300.8	N	J - X =	629,251.8	E
K - Y =	400,636.7	N	K - X =	627,937.7	E
L - Y =	400,644.8	N	L - X =	629,271.2	E

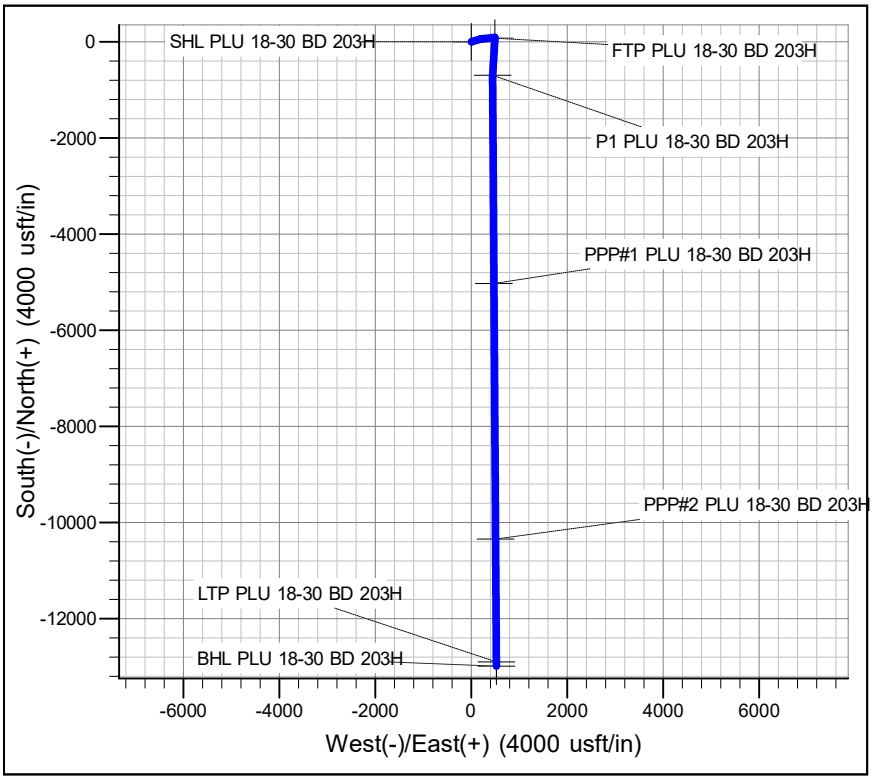
LINE TABLE		
LINE	AZIMUTH	LENGTH
L1	81° 09'34"	500.76'
L2	183° 34'51"	776.78'
L3	179° 37'55"	12,291.52'

FSC INC SURVEYORS+ENGINEERS
2205 Walnut Street - Columbus, TX 78934
Ph: 817.349.9800 - Fax: 979.732.5271
TBPE Firm 17957 | TBPLS Firm 10000100
www.fscinc.net

DATE:	9-9-2025	PROJECT NO:	2025060196
DRAWN BY:	LM	SCALE:	1" = 2,000'
CHECKED BY:	WL	SHEET:	2 OF 2
FIELD CREW:	IR	REVISION:	1

Site: Poker Lake Unit 18-30 BD
Well: Poker Lake Unit 18-30 BD 203H
Wellbore: OH
Design: Plan 0





FORMATION TOP DETAILS

TVDPath	MDPath	Formation
765.0	765.0	Rustler
1043.5	1043.5	Salado
3208.1	3217.6	Base of Salt
3602.0	3614.6	Delaware
4503.6	4530.1	Cherry Canyon
6067.8	6102.9	Brushy Canyon
7279.1	7314.1	Basal Brushy Canyon
7513.1	7548.2	Bone Spring Lm.
7622.6	7657.7	Avalon
7860.2	7895.2	Lower Avalon
8283.8	8318.9	1st Bone Spring Sand
8634.6	8669.7	2nd Bone Spring Shale
8797.0	8834.4	2nd Bone Spring Lime
8914.2	8959.6	2nd Bone Spring Sand
9323.0	9766.9	2rd Bone Spring Sand Lower Landing

DRILLING PLAN: BLM COMPLIANCE
(Supplement to BLM 3160-3)

ExxonMobil
Poker Lake Unit 18-30 BD 203H
Projected TD: 22134' MD / 9323' TVD
SHL: 285' FNL & 2305' FEL , Section 18, T25S, R30E
BHL: 2646' FNL & 1847' FEL , Section 30, T25S, R30E
Eddy County, NM

1. Geologic Name of Surface Formation

A. Quaternary

2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	765'	Water
Salado	1044'	Water
Base of Salt	3208'	Water
Delaware	3602'	Water
Cherry Canyon	4504'	Water/Oil/Gas
Brushy Canyon	7279'	Water/Oil/Gas
Bone Spring Lm.	7513'	Water/Oil/Gas
Avalon	7623'	Water/Oil/Gas
1st Bone Spring Sand	8284'	Water/Oil/Gas
2nd Bone Spring Shale	8635'	Water/Oil/Gas
2nd Bone Spring Lime	8797'	Water/Oil/Gas
2nd Bone Spring Sand	8914'	Water/Oil/Gas
2nd Bone Spring Mid Carb	9323'	Water/Oil/Gas

Section 2 Summary:

*** Deepest Expected Groundwater Depth: 40' (per NM State Engineers Office).

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 9-5/8" inch casing at 1019' and circulating cement back to surface.

3. Primary Casing Design

Primary Design:

Hole Size (in.)	MD	Casing TVD	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25"	0' – 1019'	1019'	9-5/8"	40	J55	BTC	New	12.64	11.65	5.18
8.75"	0' – 4000'	3982'	7-5/8"	29.7	P110-ICY	Tenaris Wedge 511	New	6.00	8.53	3.44
8.75"	4000' – 8492'	8457'	7-5/8"	29.7	L80-IC	Tenaris Wedge 511	New	3.35	6.11	2.48
6.75"	0' – 8392'	8357'	5-1/2"	20	P110-ICY	Tenaris Wedge 441	New	1.18	3.40	2.92
6.75"	8392' – 22134'	9323'	5-1/2"	20	P110-ICY	Tenaris Wedge 441	New	1.18	3.05	2.92

Section 3 Summary:

XTO will keep casing fluid filled to meet BLM's collapse requirement.
The planned kick off point is located at: 8642' MD / 8607' TVD.

Wellhead:

A multi-bowl wellhead system will be utilized.The well design chosen is: 3-String Slim Non-Potash

Wellhead will be installed by manufacturer's representatives.

Manufacturer will monitor welding process to ensure appropriate temperature of seal.

4. Cement Program

Primary Cementing								
Hole Section	Slurry Type	No. Sacks	Density (ppg)	Yield (ft3/sack)	TOC (ft)	Casing Setting Depth (MD)	Excess (%)	Slurry Description
Surface 1	Lead	213	12.4	2.11	0	1,019	100%	Surface 1 Class C Lead Cement
Surface 1	Tail	141	14.8	1.33	719	1,019	100%	Surface 1 Class C Tail Cement
Intermediate 1	Lead							
Intermediate 1	Tail	113	14.8	1.45	7279	8,492	35%	Intermediate 1 Class C Tail Cement
Production 1	Lead							
Production 1	Tail	996	13.2	1.44	7992	22,134	25%	Production 1 Class C Tail Cement

Breadenhead Cementing							
Casing	Slurry Type	No. Sacks	Density (ppg)	Yield (ft3/sack)	Cemented Interval	Excess (%)	Slurry Description
Intermediate 1	Bradenhead Squeeze	681	14.8	1.45	0 - 7279'	35%	Intermediate Class C Bradenhead Squeeze Cement

Section 4 Summary:

*Bradenhead Squeeze 2nd Stage Offline

5. Pressure Control Equipment

Section 5 Summary:

Once the permanent WH is installed on the casing, the blow out preventer equipment (BOP) will consist of a minimum 5M Hydril and a minimum 10M triple Ram BOP.

All BOP testing will be done by an independent service company. Operator will Test as per 43CFR-3172.

No break testing will be done if intermediate casing point penetrates the Wolfcamp

Requested Variances

4A) Offline Cementing Variance
XOM requests the option to perform offline cement and bradenhead jobs (if needed) SURFACE, INTERMEDIATE, and PRODUCTION casing strings where batch drilling is approved. XOM 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. Offline cement operations will then be conducted after the rig is moved off the current well to the next well in the batch sequence. The TA cap will also be installed when applicable per wellhead manufacturer's procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

5A) Break Test Variance
A break testing variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead for the intermediate hole sections which is in compliance with API Standard 53. The maximum anticipated surface pressure is less than 4800psi and the deepest intermediate casing point does not penetrate the Wolfcamp Formation.

5B) Flex Hose Variance
A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors.

8A) Open Hole Logging Variance
Open hole logging will not be done on this well.

10A) Spudder Rig Variance
XOM requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing.

10B) Batch Drilling Variance
XOM requests a variance to be able to batch drill this well. In doing so, XOM will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and the well is static. XOM will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and intermediate strings are all completed, XOM will begin drilling the production hole on each of the wells.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)	Comments
0' – 1019'	12.25"	FW/Native	8.3 - 8.7	35-40	NC	Fresh Water or Native Water
1019' – 8492'	8.75"	BDE/OBM or FW/Brine	9.5 - 10	30-32	NC	Fluid type will be based upon on well conditions. A fully saturated system will be used across the salt interval.
8492' – 22134'	6.75"	OBM	9 - 9.6	50-60	NC - 20	OBM or Cut Brine depending on Well Conditions

Section 6 Summary:

The necessary mud products for weight addition and fluid loss control will be on location at all times.

Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. An EDR (Electronic Drilling Recorder) 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.

7. Auxiliary Well Control and Monitoring Equipment

Section 7 Summary:

A Kelly cock will be in the drill string at all times.

A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.

H2S monitors will be on location when drilling below the 9-5/8" casing.

8. Logging, Coring and Testing Program

Section 8 Summary:

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

Section 9 Summary:

The estimated bottom hole temperature of 159F to 179F. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation is possible throughout the well.

10. Anticipated Starting Date and Duration of Operations

Section 10 Summary:

Anticipated spud date will be after BLM approval. Move in operations and drilling is expected to take 40 days.

ROC

Long Lead - PLU 18-30 BD
Poker Lake Unit 18-30 BD
Poker Lake Unit 18-30 BD 203H

OH

Plan: Plan 0

Standard Planning Report

11 September, 2025

Planning Report

Database:	EDM 5000.18 Single User Db	**Local Co-ordinate Reference:**	Well Poker Lake Unit 18-30 BD 203H
Company:	ROC	**TVD Reference:**	RKB30' @ 3211.0usft
Project:	Long Lead - PLU 18-30 BD	**MD Reference:**	RKB30' @ 3211.0usft
Site:	Poker Lake Unit 18-30 BD	**North Reference:**	Grid
Well:	Poker Lake Unit 18-30 BD 203H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0		

Project Long Lead - PLU 18-30 BD

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

Site Poker Lake Unit 18-30 BD

Site Position:		**Northing:**	413,640.80 usft	**Latitude:**	32° 8' 11.538 N
From:	Map	**Easting:**	628,142.70 usft	**Longitude:**	103° 55' 9.659 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well Poker Lake Unit 18-30 BD 203H

Well Position	**+N/-S**	0.0 usft	**Northing:**	413,641.00 usft	**Latitude:**	32° 8' 11.536 N
	+E/-W	0.0 usft	**Easting:**	628,232.80 usft	**Longitude:**	103° 55' 8.611 W
Position Uncertainty		2.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,181.0 usft
Grid Convergence:		0.22 °				

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	6/4/2025	6.23	59.64	46,996.00047521

Design Plan 0

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	179.65

Plan Survey Tool Program **Date** 9/11/2025

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,133.7	Plan 0 (OH)	XOMR2_OWSG MWD+IFR1+ OWSG MWD + IFR1 + Multi-St	

Planning Report

Database:	EDM 5000.18 Single User Db	**Local Co-ordinate Reference:**	Well Poker Lake Unit 18-30 BD 203H
Company:	ROC	**TVD Reference:**	RKB30' @ 3211.0usft
Project:	Long Lead - PLU 18-30 BD	**MD Reference:**	RKB30' @ 3211.0usft
Site:	Poker Lake Unit 18-30 BD	**North Reference:**	Grid
Well:	Poker Lake Unit 18-30 BD 203H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0		

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,600.0	6.00	74.00	1,599.5	4.3	15.1	2.00	2.00	0.00	74.00	
3,400.0	6.00	74.00	3,389.6	56.2	195.9	0.00	0.00	0.00	0.00	
3,610.0	10.00	83.50	3,597.5	61.3	224.6	2.00	1.90	4.52	23.04	
4,931.0	10.00	83.50	4,898.4	87.2	452.5	0.00	0.00	0.00	0.00	
5,431.0	0.00	0.00	5,395.9	92.2	495.8	2.00	-2.00	0.00	180.00	
8,641.9	0.00	0.00	8,606.8	92.2	495.8	0.00	0.00	0.00	0.00	
9,766.9	90.00	183.48	9,323.0	-622.7	452.3	8.00	8.00	0.00	183.48	
9,959.2	90.00	179.63	9,323.0	-814.9	447.1	2.00	0.00	-2.00	-90.00	
22,043.8	90.00	179.63	9,323.0	-12,899.3	524.2	0.00	0.00	0.00	0.00	LTP PLU 18-30 BD 2(
22,133.8	90.00	179.63	9,323.0	-12,989.3	524.8	0.00	0.00	0.00	0.00	BHL PLU 18-30 BD 2(

Planning Report

Database:	EDM 5000.18 Single User Db	**Local Co-ordinate Reference:**	Well Poker Lake Unit 18-30 BD 203H
Company:	ROC	**TVD Reference:**	RKB30' @ 3211.0usft
Project:	Long Lead - PLU 18-30 BD	**MD Reference:**	RKB30' @ 3211.0usft
Site:	Poker Lake Unit 18-30 BD	**North Reference:**	Grid
Well:	Poker Lake Unit 18-30 BD 203H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	2.00	74.00	1,400.0	0.5	1.7	-0.5	2.00	2.00	0.00
1,500.0	4.00	74.00	1,499.8	1.9	6.7	-1.9	2.00	2.00	0.00
1,600.0	6.00	74.00	1,599.5	4.3	15.1	-4.2	2.00	2.00	0.00
1,700.0	6.00	74.00	1,698.9	7.2	25.1	-7.1	0.00	0.00	0.00
1,800.0	6.00	74.00	1,798.4	10.1	35.2	-9.9	0.00	0.00	0.00
1,900.0	6.00	74.00	1,897.8	13.0	45.2	-12.7	0.00	0.00	0.00
2,000.0	6.00	74.00	1,997.3	15.9	55.3	-15.5	0.00	0.00	0.00
2,100.0	6.00	74.00	2,096.7	18.7	65.3	-18.3	0.00	0.00	0.00
2,200.0	6.00	74.00	2,196.2	21.6	75.4	-21.2	0.00	0.00	0.00
2,300.0	6.00	74.00	2,295.6	24.5	85.4	-24.0	0.00	0.00	0.00
2,400.0	6.00	74.00	2,395.1	27.4	95.5	-26.8	0.00	0.00	0.00
2,500.0	6.00	74.00	2,494.5	30.3	105.5	-29.6	0.00	0.00	0.00
2,600.0	6.00	74.00	2,594.0	33.1	115.6	-32.4	0.00	0.00	0.00
2,700.0	6.00	74.00	2,693.4	36.0	125.6	-35.3	0.00	0.00	0.00
2,800.0	6.00	74.00	2,792.9	38.9	135.7	-38.1	0.00	0.00	0.00
2,900.0	6.00	74.00	2,892.3	41.8	145.7	-40.9	0.00	0.00	0.00
3,000.0	6.00	74.00	2,991.8	44.7	155.8	-43.7	0.00	0.00	0.00
3,100.0	6.00	74.00	3,091.2	47.5	165.8	-46.5	0.00	0.00	0.00
3,200.0	6.00	74.00	3,190.7	50.4	175.9	-49.3	0.00	0.00	0.00
3,300.0	6.00	74.00	3,290.1	53.3	185.9	-52.2	0.00	0.00	0.00
3,400.0	6.00	74.00	3,389.6	56.2	195.9	-55.0	0.00	0.00	0.00
3,500.0	7.88	79.72	3,488.9	58.9	207.7	-57.6	2.00	1.88	5.72
3,600.0	9.81	83.22	3,587.7	61.1	222.9	-59.7	2.00	1.93	3.51
3,610.0	10.00	83.50	3,597.5	61.3	224.6	-59.9	2.00	1.94	2.77
3,700.0	10.00	83.50	3,686.1	63.0	240.2	-61.6	0.00	0.00	0.00
3,800.0	10.00	83.50	3,784.6	65.0	257.4	-63.4	0.00	0.00	0.00
3,900.0	10.00	83.50	3,883.1	67.0	274.7	-65.3	0.00	0.00	0.00
4,000.0	10.00	83.50	3,981.6	68.9	291.9	-67.2	0.00	0.00	0.00
4,100.0	10.00	83.50	4,080.1	70.9	309.2	-69.0	0.00	0.00	0.00
4,200.0	10.00	83.50	4,178.6	72.9	326.4	-70.9	0.00	0.00	0.00
4,300.0	10.00	83.50	4,277.0	74.8	343.7	-72.7	0.00	0.00	0.00
4,400.0	10.00	83.50	4,375.5	76.8	360.9	-74.6	0.00	0.00	0.00
4,500.0	10.00	83.50	4,474.0	78.8	378.2	-76.5	0.00	0.00	0.00
4,600.0	10.00	83.50	4,572.5	80.7	395.4	-78.3	0.00	0.00	0.00
4,700.0	10.00	83.50	4,671.0	82.7	412.7	-80.2	0.00	0.00	0.00
4,800.0	10.00	83.50	4,769.4	84.7	429.9	-82.0	0.00	0.00	0.00
4,900.0	10.00	83.50	4,867.9	86.6	447.2	-83.9	0.00	0.00	0.00
4,931.0	10.00	83.50	4,898.4	87.2	452.5	-84.5	0.00	0.00	0.00
5,000.0	8.62	83.50	4,966.5	88.5	463.6	-85.7	2.00	-2.00	0.00
5,100.0	6.62	83.50	5,065.6	90.0	476.8	-87.1	2.00	-2.00	0.00

Planning Report

Database:	EDM 5000.18 Single User Db	**Local Co-ordinate Reference:**	Well Poker Lake Unit 18-30 BD 203H
Company:	ROC	**TVD Reference:**	RKB30' @ 3211.0usft
Project:	Long Lead - PLU 18-30 BD	**MD Reference:**	RKB30' @ 3211.0usft
Site:	Poker Lake Unit 18-30 BD	**North Reference:**	Grid
Well:	Poker Lake Unit 18-30 BD 203H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,200.0	4.62	83.50	5,165.2	91.1	486.5	-88.1	2.00	-2.00	0.00
5,300.0	2.62	83.50	5,265.0	91.8	492.8	-88.8	2.00	-2.00	0.00
5,400.0	0.62	83.50	5,364.9	92.2	495.6	-89.1	2.00	-2.00	0.00
5,431.0	0.00	0.00	5,395.9	92.2	495.8	-89.1	2.00	-2.00	0.00
5,500.0	0.00	0.00	5,464.9	92.2	495.8	-89.1	0.00	0.00	0.00
5,600.0	0.00	0.00	5,564.9	92.2	495.8	-89.1	0.00	0.00	0.00
5,700.0	0.00	0.00	5,664.9	92.2	495.8	-89.1	0.00	0.00	0.00
5,800.0	0.00	0.00	5,764.9	92.2	495.8	-89.1	0.00	0.00	0.00
5,900.0	0.00	0.00	5,864.9	92.2	495.8	-89.1	0.00	0.00	0.00
6,000.0	0.00	0.00	5,964.9	92.2	495.8	-89.1	0.00	0.00	0.00
6,100.0	0.00	0.00	6,064.9	92.2	495.8	-89.1	0.00	0.00	0.00
6,200.0	0.00	0.00	6,164.9	92.2	495.8	-89.1	0.00	0.00	0.00
6,300.0	0.00	0.00	6,264.9	92.2	495.8	-89.1	0.00	0.00	0.00
6,400.0	0.00	0.00	6,364.9	92.2	495.8	-89.1	0.00	0.00	0.00
6,500.0	0.00	0.00	6,464.9	92.2	495.8	-89.1	0.00	0.00	0.00
6,600.0	0.00	0.00	6,564.9	92.2	495.8	-89.1	0.00	0.00	0.00
6,700.0	0.00	0.00	6,664.9	92.2	495.8	-89.1	0.00	0.00	0.00
6,800.0	0.00	0.00	6,764.9	92.2	495.8	-89.1	0.00	0.00	0.00
6,900.0	0.00	0.00	6,864.9	92.2	495.8	-89.1	0.00	0.00	0.00
7,000.0	0.00	0.00	6,964.9	92.2	495.8	-89.1	0.00	0.00	0.00
7,100.0	0.00	0.00	7,064.9	92.2	495.8	-89.1	0.00	0.00	0.00
7,200.0	0.00	0.00	7,164.9	92.2	495.8	-89.1	0.00	0.00	0.00
7,300.0	0.00	0.00	7,264.9	92.2	495.8	-89.1	0.00	0.00	0.00
7,400.0	0.00	0.00	7,364.9	92.2	495.8	-89.1	0.00	0.00	0.00
7,500.0	0.00	0.00	7,464.9	92.2	495.8	-89.1	0.00	0.00	0.00
7,600.0	0.00	0.00	7,564.9	92.2	495.8	-89.1	0.00	0.00	0.00
7,700.0	0.00	0.00	7,664.9	92.2	495.8	-89.1	0.00	0.00	0.00
7,800.0	0.00	0.00	7,764.9	92.2	495.8	-89.1	0.00	0.00	0.00
7,900.0	0.00	0.00	7,864.9	92.2	495.8	-89.1	0.00	0.00	0.00
8,000.0	0.00	0.00	7,964.9	92.2	495.8	-89.1	0.00	0.00	0.00
8,100.0	0.00	0.00	8,064.9	92.2	495.8	-89.1	0.00	0.00	0.00
8,200.0	0.00	0.00	8,164.9	92.2	495.8	-89.1	0.00	0.00	0.00
8,300.0	0.00	0.00	8,264.9	92.2	495.8	-89.1	0.00	0.00	0.00
8,400.0	0.00	0.00	8,364.9	92.2	495.8	-89.1	0.00	0.00	0.00
8,500.0	0.00	0.00	8,464.9	92.2	495.8	-89.1	0.00	0.00	0.00
8,600.0	0.00	0.00	8,564.9	92.2	495.8	-89.1	0.00	0.00	0.00
8,641.9	0.00	0.00	8,606.8	92.2	495.8	-89.1	0.00	0.00	0.00
8,700.0	4.65	183.48	8,664.8	89.8	495.6	-86.8	8.00	8.00	0.00
8,800.0	12.65	183.48	8,763.6	74.8	494.7	-71.8	8.00	8.00	0.00
8,900.0	20.65	183.48	8,859.4	46.2	493.0	-43.2	8.00	8.00	0.00
9,000.0	28.65	183.48	8,950.2	4.7	490.5	-1.7	8.00	8.00	0.00
9,100.0	36.65	183.48	9,034.3	-49.2	487.2	52.1	8.00	8.00	0.00
9,200.0	44.65	183.48	9,110.1	-114.1	483.2	117.1	8.00	8.00	0.00
9,300.0	52.65	183.48	9,176.1	-189.0	478.7	191.9	8.00	8.00	0.00
9,400.0	60.65	183.48	9,231.1	-272.3	473.6	275.2	8.00	8.00	0.00
9,500.0	68.65	183.48	9,273.8	-362.4	468.1	365.3	8.00	8.00	0.00
9,600.0	76.65	183.48	9,303.6	-457.6	462.3	460.4	8.00	8.00	0.00
9,700.0	84.65	183.48	9,319.9	-556.0	456.4	558.8	8.00	8.00	0.00
9,766.9	90.00	183.48	9,323.0	-622.7	452.3	625.5	8.00	8.00	0.00
9,800.0	90.00	182.82	9,323.0	-655.8	450.5	658.5	2.00	0.00	-2.00
9,900.0	90.00	180.82	9,323.0	-755.7	447.3	758.4	2.00	0.00	-2.00
9,959.2	90.00	179.63	9,323.0	-814.9	447.1	817.6	2.00	0.00	-2.00
10,000.0	90.00	179.63	9,323.0	-855.7	447.3	858.4	0.00	0.00	0.00
10,100.0	90.00	179.63	9,323.0	-955.7	448.0	958.4	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.18 Single User Db	**Local Co-ordinate Reference:**	Well Poker Lake Unit 18-30 BD 203H
Company:	ROC	**TVD Reference:**	RKB30' @ 3211.0usft
Project:	Long Lead - PLU 18-30 BD	**MD Reference:**	RKB30' @ 3211.0usft
Site:	Poker Lake Unit 18-30 BD	**North Reference:**	Grid
Well:	Poker Lake Unit 18-30 BD 203H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,200.0	90.00	179.63	9,323.0	-1,055.7	448.6	1,058.4	0.00	0.00	0.00
10,300.0	90.00	179.63	9,323.0	-1,155.7	449.3	1,158.4	0.00	0.00	0.00
10,400.0	90.00	179.63	9,323.0	-1,255.7	449.9	1,258.4	0.00	0.00	0.00
10,500.0	90.00	179.63	9,323.0	-1,355.7	450.5	1,358.4	0.00	0.00	0.00
10,600.0	90.00	179.63	9,323.0	-1,455.7	451.2	1,458.4	0.00	0.00	0.00
10,700.0	90.00	179.63	9,323.0	-1,555.7	451.8	1,558.4	0.00	0.00	0.00
10,800.0	90.00	179.63	9,323.0	-1,655.7	452.4	1,658.4	0.00	0.00	0.00
10,900.0	90.00	179.63	9,323.0	-1,755.7	453.1	1,758.4	0.00	0.00	0.00
11,000.0	90.00	179.63	9,323.0	-1,855.7	453.7	1,858.4	0.00	0.00	0.00
11,100.0	90.00	179.63	9,323.0	-1,955.7	454.4	1,958.4	0.00	0.00	0.00
11,200.0	90.00	179.63	9,323.0	-2,055.7	455.0	2,058.4	0.00	0.00	0.00
11,300.0	90.00	179.63	9,323.0	-2,155.7	455.6	2,158.4	0.00	0.00	0.00
11,400.0	90.00	179.63	9,323.0	-2,255.7	456.3	2,258.4	0.00	0.00	0.00
11,500.0	90.00	179.63	9,323.0	-2,355.7	456.9	2,358.4	0.00	0.00	0.00
11,600.0	90.00	179.63	9,323.0	-2,455.7	457.6	2,458.4	0.00	0.00	0.00
11,700.0	90.00	179.63	9,323.0	-2,555.7	458.2	2,558.4	0.00	0.00	0.00
11,800.0	90.00	179.63	9,323.0	-2,655.7	458.8	2,658.4	0.00	0.00	0.00
11,900.0	90.00	179.63	9,323.0	-2,755.7	459.5	2,758.4	0.00	0.00	0.00
12,000.0	90.00	179.63	9,323.0	-2,855.7	460.1	2,858.4	0.00	0.00	0.00
12,100.0	90.00	179.63	9,323.0	-2,955.7	460.7	2,958.4	0.00	0.00	0.00
12,200.0	90.00	179.63	9,323.0	-3,055.7	461.4	3,058.4	0.00	0.00	0.00
12,300.0	90.00	179.63	9,323.0	-3,155.7	462.0	3,158.4	0.00	0.00	0.00
12,400.0	90.00	179.63	9,323.0	-3,255.7	462.7	3,258.4	0.00	0.00	0.00
12,500.0	90.00	179.63	9,323.0	-3,355.7	463.3	3,358.4	0.00	0.00	0.00
12,600.0	90.00	179.63	9,323.0	-3,455.7	463.9	3,458.4	0.00	0.00	0.00
12,700.0	90.00	179.63	9,323.0	-3,555.7	464.6	3,558.4	0.00	0.00	0.00
12,800.0	90.00	179.63	9,323.0	-3,655.6	465.2	3,658.4	0.00	0.00	0.00
12,900.0	90.00	179.63	9,323.0	-3,755.6	465.9	3,758.4	0.00	0.00	0.00
13,000.0	90.00	179.63	9,323.0	-3,855.6	466.5	3,858.4	0.00	0.00	0.00
13,100.0	90.00	179.63	9,323.0	-3,955.6	467.1	3,958.4	0.00	0.00	0.00
13,200.0	90.00	179.63	9,323.0	-4,055.6	467.8	4,058.4	0.00	0.00	0.00
13,300.0	90.00	179.63	9,323.0	-4,155.6	468.4	4,158.4	0.00	0.00	0.00
13,400.0	90.00	179.63	9,323.0	-4,255.6	469.0	4,258.4	0.00	0.00	0.00
13,500.0	90.00	179.63	9,323.0	-4,355.6	469.7	4,358.4	0.00	0.00	0.00
13,600.0	90.00	179.63	9,323.0	-4,455.6	470.3	4,458.4	0.00	0.00	0.00
13,700.0	90.00	179.63	9,323.0	-4,555.6	471.0	4,558.4	0.00	0.00	0.00
13,800.0	90.00	179.63	9,323.0	-4,655.6	471.6	4,658.4	0.00	0.00	0.00
13,900.0	90.00	179.63	9,323.0	-4,755.6	472.2	4,758.4	0.00	0.00	0.00
14,000.0	90.00	179.63	9,323.0	-4,855.6	472.9	4,858.4	0.00	0.00	0.00
14,100.0	90.00	179.63	9,323.0	-4,955.6	473.5	4,958.4	0.00	0.00	0.00
14,200.0	90.00	179.63	9,323.0	-5,055.6	474.1	5,058.4	0.00	0.00	0.00
14,300.0	90.00	179.63	9,323.0	-5,155.6	474.8	5,158.4	0.00	0.00	0.00
14,400.0	90.00	179.63	9,323.0	-5,255.6	475.4	5,258.4	0.00	0.00	0.00
14,500.0	90.00	179.63	9,323.0	-5,355.6	476.1	5,358.4	0.00	0.00	0.00
14,600.0	90.00	179.63	9,323.0	-5,455.6	476.7	5,458.4	0.00	0.00	0.00
14,700.0	90.00	179.63	9,323.0	-5,555.6	477.3	5,558.4	0.00	0.00	0.00
14,800.0	90.00	179.63	9,323.0	-5,655.6	478.0	5,658.4	0.00	0.00	0.00
14,900.0	90.00	179.63	9,323.0	-5,755.6	478.6	5,758.4	0.00	0.00	0.00
15,000.0	90.00	179.63	9,323.0	-5,855.6	479.3	5,858.4	0.00	0.00	0.00
15,100.0	90.00	179.63	9,323.0	-5,955.6	479.9	5,958.4	0.00	0.00	0.00
15,200.0	90.00	179.63	9,323.0	-6,055.6	480.5	6,058.4	0.00	0.00	0.00
15,300.0	90.00	179.63	9,323.0	-6,155.6	481.2	6,158.4	0.00	0.00	0.00
15,400.0	90.00	179.63	9,323.0	-6,255.6	481.8	6,258.4	0.00	0.00	0.00
15,500.0	90.00	179.63	9,323.0	-6,355.6	482.4	6,358.4	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.18 Single User Db	**Local Co-ordinate Reference:**	Well Poker Lake Unit 18-30 BD 203H
Company:	ROC	**TVD Reference:**	RKB30' @ 3211.0usft
Project:	Long Lead - PLU 18-30 BD	**MD Reference:**	RKB30' @ 3211.0usft
Site:	Poker Lake Unit 18-30 BD	**North Reference:**	Grid
Well:	Poker Lake Unit 18-30 BD 203H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,600.0	90.00	179.63	9,323.0	-6,455.6	483.1	6,458.4	0.00	0.00	0.00
15,700.0	90.00	179.63	9,323.0	-6,555.6	483.7	6,558.4	0.00	0.00	0.00
15,800.0	90.00	179.63	9,323.0	-6,655.6	484.4	6,658.4	0.00	0.00	0.00
15,900.0	90.00	179.63	9,323.0	-6,755.6	485.0	6,758.4	0.00	0.00	0.00
16,000.0	90.00	179.63	9,323.0	-6,855.6	485.6	6,858.4	0.00	0.00	0.00
16,100.0	90.00	179.63	9,323.0	-6,955.6	486.3	6,958.4	0.00	0.00	0.00
16,200.0	90.00	179.63	9,323.0	-7,055.6	486.9	7,058.4	0.00	0.00	0.00
16,300.0	90.00	179.63	9,323.0	-7,155.6	487.5	7,158.4	0.00	0.00	0.00
16,400.0	90.00	179.63	9,323.0	-7,255.6	488.2	7,258.4	0.00	0.00	0.00
16,500.0	90.00	179.63	9,323.0	-7,355.6	488.8	7,358.4	0.00	0.00	0.00
16,600.0	90.00	179.63	9,323.0	-7,455.6	489.5	7,458.4	0.00	0.00	0.00
16,700.0	90.00	179.63	9,323.0	-7,555.6	490.1	7,558.4	0.00	0.00	0.00
16,800.0	90.00	179.63	9,323.0	-7,655.6	490.7	7,658.4	0.00	0.00	0.00
16,900.0	90.00	179.63	9,323.0	-7,755.6	491.4	7,758.4	0.00	0.00	0.00
17,000.0	90.00	179.63	9,323.0	-7,855.6	492.0	7,858.4	0.00	0.00	0.00
17,100.0	90.00	179.63	9,323.0	-7,955.6	492.7	7,958.4	0.00	0.00	0.00
17,200.0	90.00	179.63	9,323.0	-8,055.6	493.3	8,058.4	0.00	0.00	0.00
17,300.0	90.00	179.63	9,323.0	-8,155.6	493.9	8,158.4	0.00	0.00	0.00
17,400.0	90.00	179.63	9,323.0	-8,255.6	494.6	8,258.4	0.00	0.00	0.00
17,500.0	90.00	179.63	9,323.0	-8,355.6	495.2	8,358.4	0.00	0.00	0.00
17,600.0	90.00	179.63	9,323.0	-8,455.6	495.8	8,458.4	0.00	0.00	0.00
17,700.0	90.00	179.63	9,323.0	-8,555.5	496.5	8,558.4	0.00	0.00	0.00
17,800.0	90.00	179.63	9,323.0	-8,655.5	497.1	8,658.4	0.00	0.00	0.00
17,900.0	90.00	179.63	9,323.0	-8,755.5	497.8	8,758.4	0.00	0.00	0.00
18,000.0	90.00	179.63	9,323.0	-8,855.5	498.4	8,858.4	0.00	0.00	0.00
18,100.0	90.00	179.63	9,323.0	-8,955.5	499.0	8,958.4	0.00	0.00	0.00
18,200.0	90.00	179.63	9,323.0	-9,055.5	499.7	9,058.4	0.00	0.00	0.00
18,300.0	90.00	179.63	9,323.0	-9,155.5	500.3	9,158.4	0.00	0.00	0.00
18,400.0	90.00	179.63	9,323.0	-9,255.5	500.9	9,258.4	0.00	0.00	0.00
18,500.0	90.00	179.63	9,323.0	-9,355.5	501.6	9,358.4	0.00	0.00	0.00
18,600.0	90.00	179.63	9,323.0	-9,455.5	502.2	9,458.4	0.00	0.00	0.00
18,700.0	90.00	179.63	9,323.0	-9,555.5	502.9	9,558.4	0.00	0.00	0.00
18,800.0	90.00	179.63	9,323.0	-9,655.5	503.5	9,658.4	0.00	0.00	0.00
18,900.0	90.00	179.63	9,323.0	-9,755.5	504.1	9,758.4	0.00	0.00	0.00
19,000.0	90.00	179.63	9,323.0	-9,855.5	504.8	9,858.4	0.00	0.00	0.00
19,100.0	90.00	179.63	9,323.0	-9,955.5	505.4	9,958.4	0.00	0.00	0.00
19,200.0	90.00	179.63	9,323.0	-10,055.5	506.1	10,058.4	0.00	0.00	0.00
19,300.0	90.00	179.63	9,323.0	-10,155.5	506.7	10,158.4	0.00	0.00	0.00
19,400.0	90.00	179.63	9,323.0	-10,255.5	507.3	10,258.4	0.00	0.00	0.00
19,500.0	90.00	179.63	9,323.0	-10,355.5	508.0	10,358.4	0.00	0.00	0.00
19,600.0	90.00	179.63	9,323.0	-10,455.5	508.6	10,458.4	0.00	0.00	0.00
19,700.0	90.00	179.63	9,323.0	-10,555.5	509.2	10,558.4	0.00	0.00	0.00
19,800.0	90.00	179.63	9,323.0	-10,655.5	509.9	10,658.4	0.00	0.00	0.00
19,900.0	90.00	179.63	9,323.0	-10,755.5	510.5	10,758.4	0.00	0.00	0.00
20,000.0	90.00	179.63	9,323.0	-10,855.5	511.2	10,858.4	0.00	0.00	0.00
20,100.0	90.00	179.63	9,323.0	-10,955.5	511.8	10,958.4	0.00	0.00	0.00
20,200.0	90.00	179.63	9,323.0	-11,055.5	512.4	11,058.4	0.00	0.00	0.00
20,300.0	90.00	179.63	9,323.0	-11,155.5	513.1	11,158.4	0.00	0.00	0.00
20,400.0	90.00	179.63	9,323.0	-11,255.5	513.7	11,258.4	0.00	0.00	0.00
20,500.0	90.00	179.63	9,323.0	-11,355.5	514.3	11,358.4	0.00	0.00	0.00
20,600.0	90.00	179.63	9,323.0	-11,455.5	515.0	11,458.4	0.00	0.00	0.00
20,700.0	90.00	179.63	9,323.0	-11,555.5	515.6	11,558.4	0.00	0.00	0.00
20,800.0	90.00	179.63	9,323.0	-11,655.5	516.3	11,658.4	0.00	0.00	0.00
20,900.0	90.00	179.63	9,323.0	-11,755.5	516.9	11,758.4	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.18 Single User Db	**Local Co-ordinate Reference:**	Well Poker Lake Unit 18-30 BD 203H
Company:	ROC	**TVD Reference:**	RKB30' @ 3211.0usft
Project:	Long Lead - PLU 18-30 BD	**MD Reference:**	RKB30' @ 3211.0usft
Site:	Poker Lake Unit 18-30 BD	**North Reference:**	Grid
Well:	Poker Lake Unit 18-30 BD 203H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
21,000.0	90.00	179.63	9,323.0	-11,855.5	517.5	11,858.4	0.00	0.00	0.00
21,100.0	90.00	179.63	9,323.0	-11,955.5	518.2	11,958.4	0.00	0.00	0.00
21,200.0	90.00	179.63	9,323.0	-12,055.5	518.8	12,058.4	0.00	0.00	0.00
21,300.0	90.00	179.63	9,323.0	-12,155.5	519.5	12,158.4	0.00	0.00	0.00
21,400.0	90.00	179.63	9,323.0	-12,255.5	520.1	12,258.4	0.00	0.00	0.00
21,500.0	90.00	179.63	9,323.0	-12,355.5	520.7	12,358.4	0.00	0.00	0.00
21,600.0	90.00	179.63	9,323.0	-12,455.5	521.4	12,458.4	0.00	0.00	0.00
21,700.0	90.00	179.63	9,323.0	-12,555.5	522.0	12,558.4	0.00	0.00	0.00
21,800.0	90.00	179.63	9,323.0	-12,655.5	522.6	12,658.4	0.00	0.00	0.00
21,900.0	90.00	179.63	9,323.0	-12,755.5	523.3	12,758.4	0.00	0.00	0.00
22,000.0	90.00	179.63	9,323.0	-12,855.5	523.9	12,858.4	0.00	0.00	0.00
22,043.8	90.00	179.63	9,323.0	-12,899.3	524.2	12,902.3	0.00	0.00	0.00
22,100.0	90.00	179.63	9,323.0	-12,955.5	524.6	12,958.4	0.00	0.00	0.00
22,133.8	90.00	179.63	9,323.0	-12,989.3	524.8	12,992.3	0.00	0.00	0.00

Design Targets

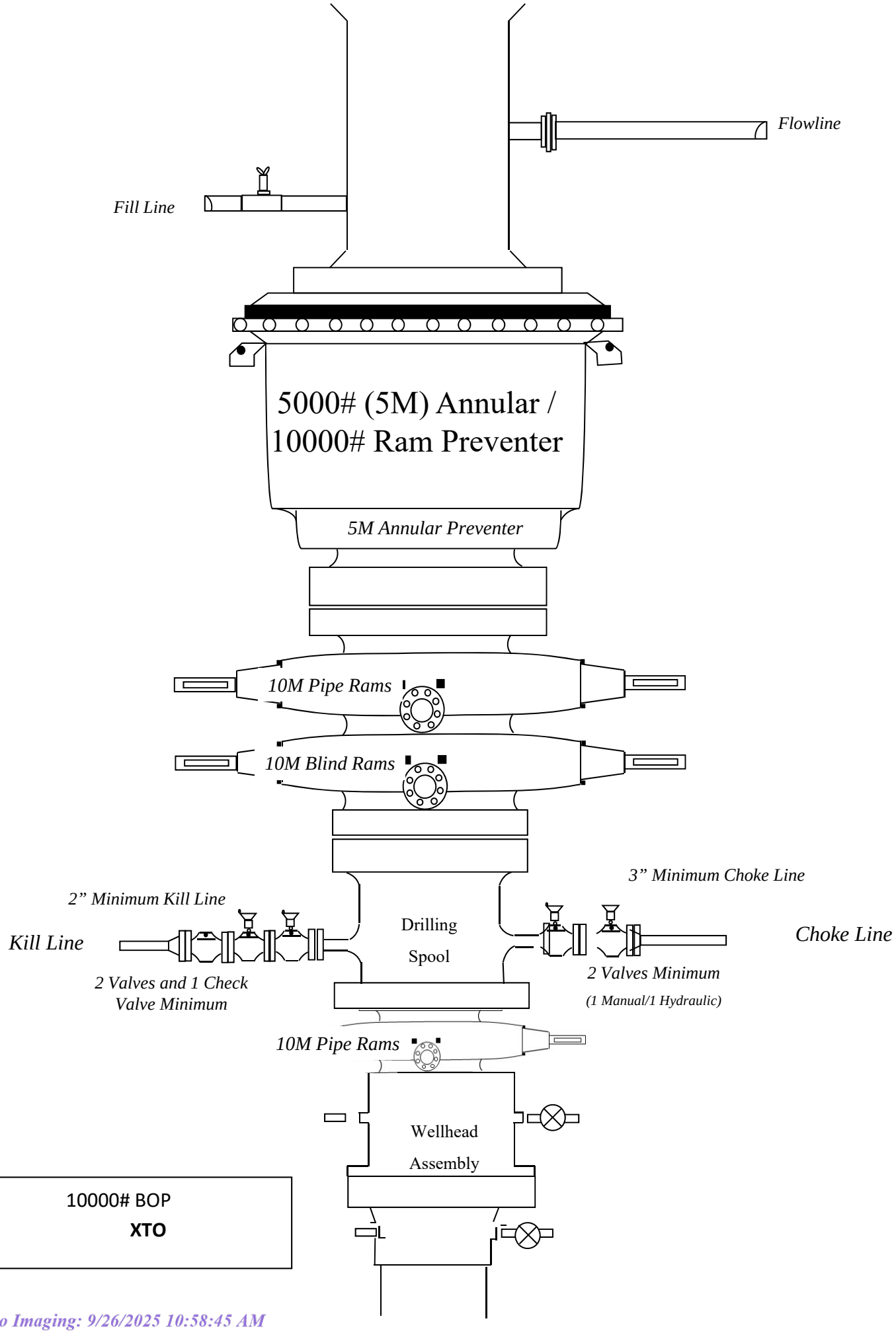
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PPP#1 PLU 18-30 BD 2(	0.00	0.00	0.0	-5,028.4	474.0	408,612.60	628,706.80	32° 7' 21.756 N	103° 55' 3.324 W
- plan misses target center by 5050.7usft at 0.0usft MD (0.0 TVD, 0.0 N, 0.0 E)									
- Point									
PPP#2 PLU 18-30 BD 2(	0.00	0.00	0.0	-10,343.4	507.9	403,297.60	628,740.70	32° 6' 29.156 N	103° 55' 3.168 W
- plan misses target center by 9323.0usft at 19487.9usft MD (9323.0 TVD, -10343.4 N, 507.9 E)									
- Point									
SHL PLU 18-30 BD 203I	0.00	0.00	0.0	0.0	0.0	413,641.00	628,232.80	32° 8' 11.536 N	103° 55' 8.611 W
- plan hits target center									
- Rectangle (sides W20.0 H20.0 D0.0)									
LTP PLU 18-30 BD 203H	0.00	0.00	9,323.0	-12,899.3	524.2	400,741.70	628,757.00	32° 6' 3.861 N	103° 55' 3.093 W
- plan hits target center									
- Point									
P1 PLU 18-30 BD 203H	0.00	0.00	9,323.0	-698.3	446.3	412,942.70	628,679.10	32° 8' 4.609 N	103° 55' 3.452 W
- plan misses target center by 2.4usft at 9842.6usft MD (9323.0 TVD, -698.4 N, 448.7 E)									
- Point									
FTP PLU 18-30 BD 203I	0.00	0.00	9,323.0	76.9	494.8	413,717.90	628,727.60	32° 8' 12.278 N	103° 55' 2.853 W
- plan misses target center by 286.3usft at 9200.0usft MD (9110.1 TVD, -114.1 N, 483.2 E)									
- Point									
BHL PLU 18-30 BD 203I	0.00	0.00	9,323.0	-12,989.3	524.9	400,651.70	628,757.70	32° 6' 2.970 N	103° 55' 3.089 W
- plan misses target center by 0.1usft at 22133.8usft MD (9323.0 TVD, -12989.3 N, 524.8 E)									
- Point									

Planning Report

Database:	EDM 5000.18 Single User Db	**Local Co-ordinate Reference:**	Well Poker Lake Unit 18-30 BD 203H
Company:	ROC	**TVD Reference:**	RKB30' @ 3211.0usft
Project:	Long Lead - PLU 18-30 BD	**MD Reference:**	RKB30' @ 3211.0usft
Site:	Poker Lake Unit 18-30 BD	**North Reference:**	Grid
Well:	Poker Lake Unit 18-30 BD 203H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0		

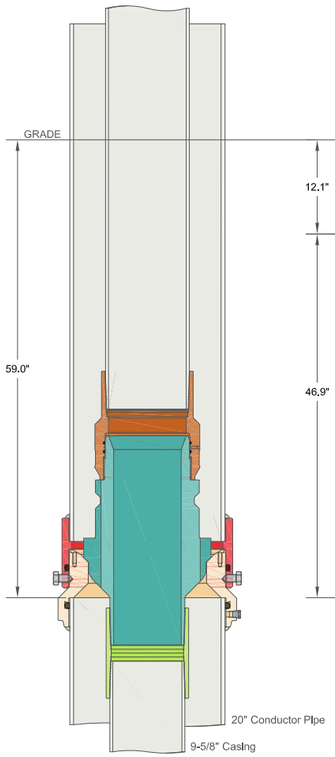
Formations

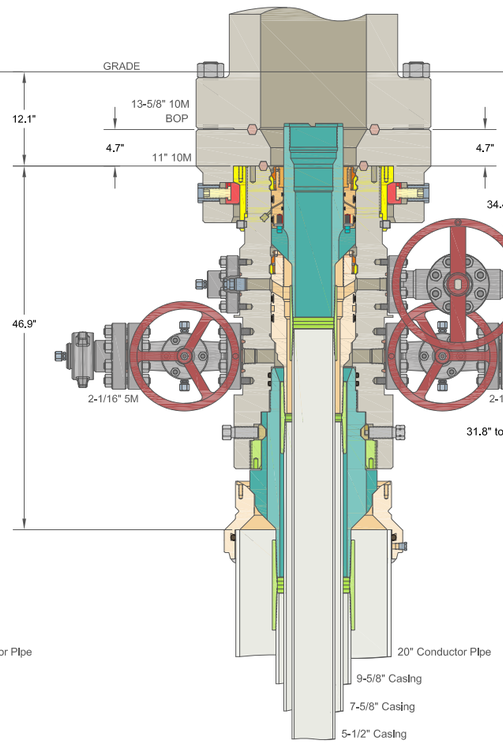
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
765.0	765.0	Rustler			
1,043.5	1,043.5	Salado			
3,217.6	3,208.1	Base of Salt			
3,614.6	3,602.0	Delaware			
4,530.1	4,503.6	Cherry Canyon			
6,102.9	6,067.8	Brushy Canyon			
7,314.1	7,279.1	Basal Brushy Canyon			
7,548.2	7,513.1	Bone Spring Lm.			
7,657.7	7,622.6	Avalon			
7,895.2	7,860.2	Lower Avalon			
8,318.9	8,283.8	1st Bone Spring Sand			
8,669.7	8,634.6	2nd Bone Spring Shale			
8,834.4	8,797.0	2nd Bone Spring Lime			
8,959.6	8,914.2	2nd Bone Spring Sand			
9,766.9	9,323.0	2rd Bone Spring Sand Lower Landing			

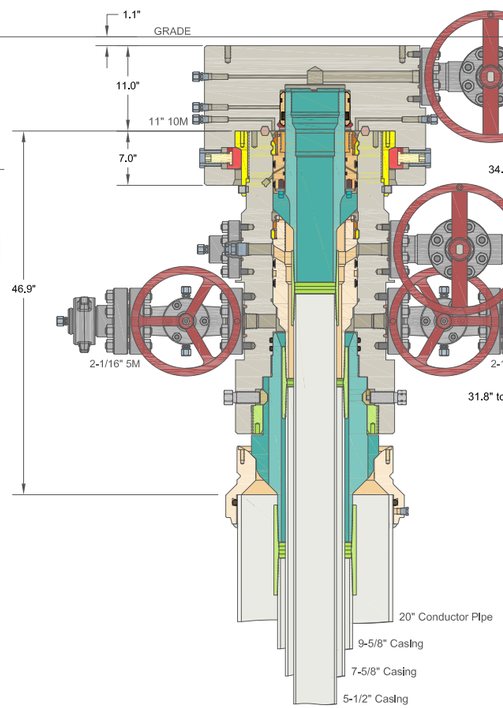


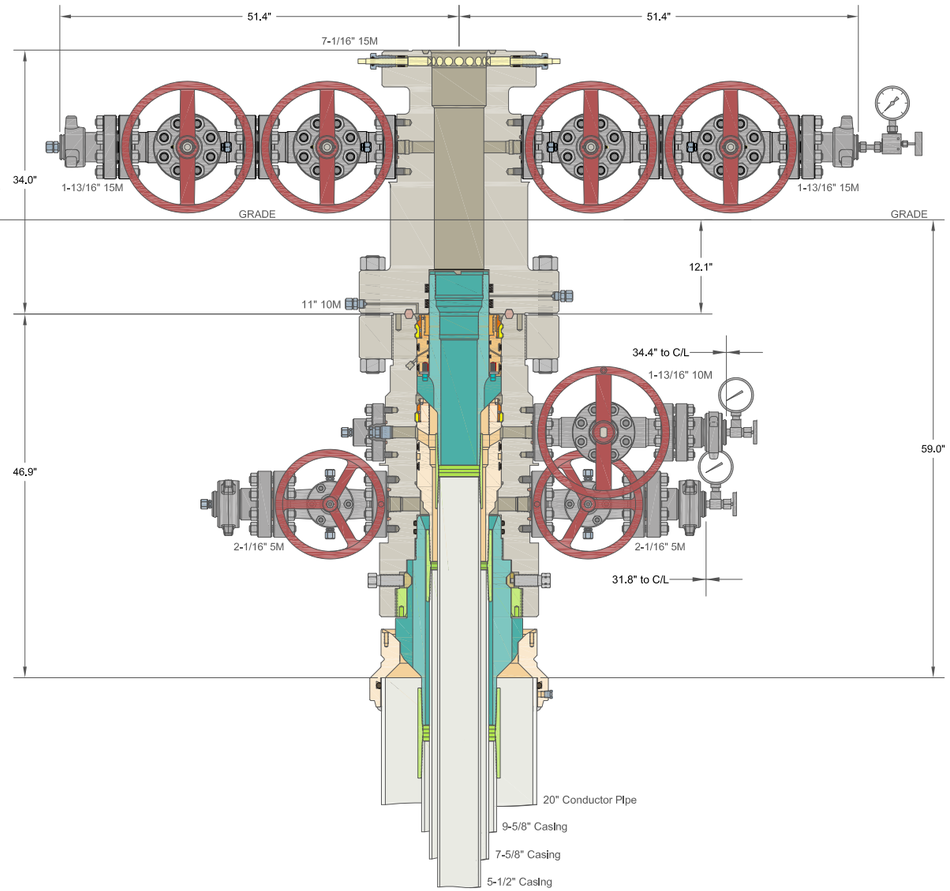
10000# BOP

XTO









ALL DIMENSIONS APPROXIMA

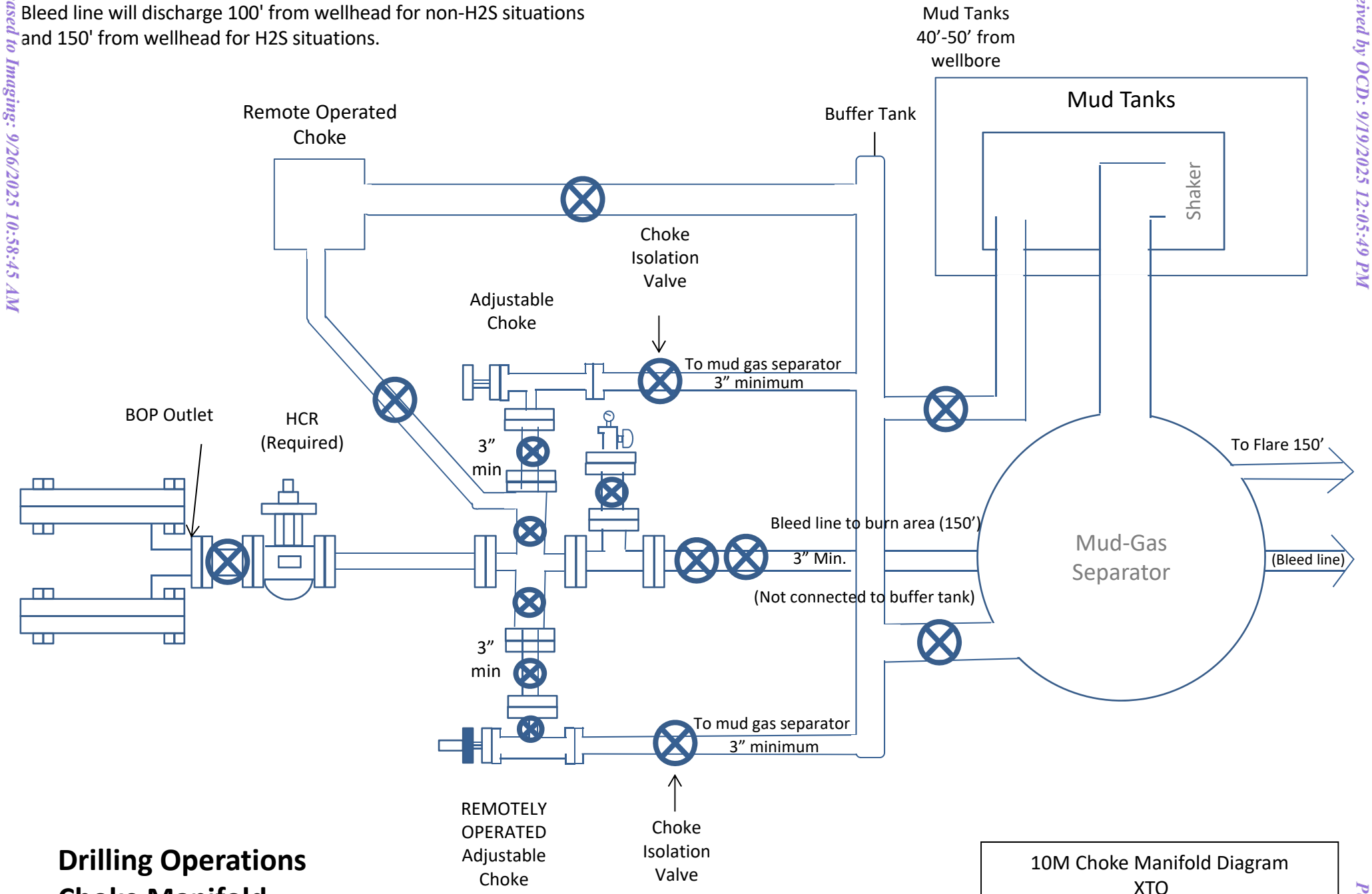
CACTUS WELLHEAD LLC

XTO ENERGY INC
DELAWARE BASIN

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

DRAWN	VJK	31MAR22
APPRV		
DRAWING NO.	HBE0000479	

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



Drilling Operations
Choke Manifold
10M Service

10M Choke Manifold Diagram
XTO

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

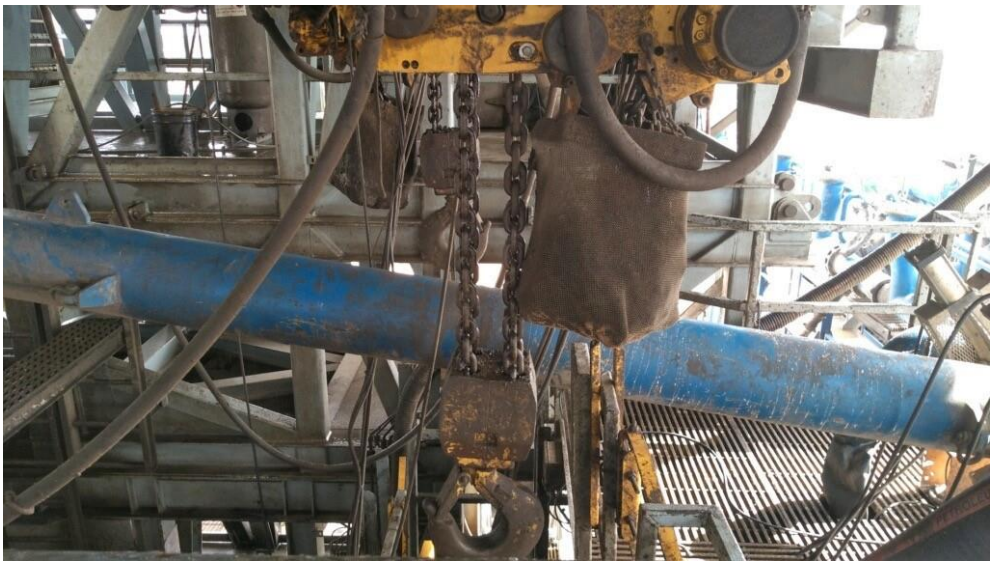


Figure 2: BOP Winch System

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.

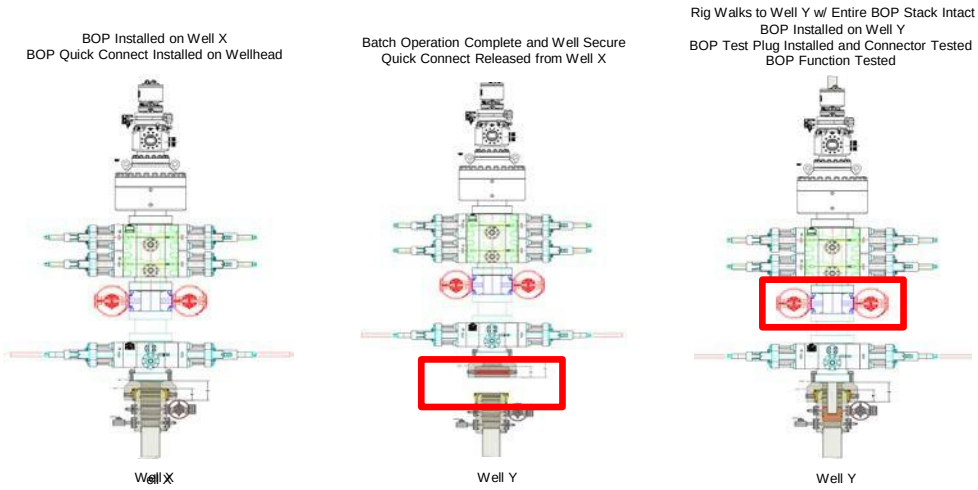
XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 0and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often 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.

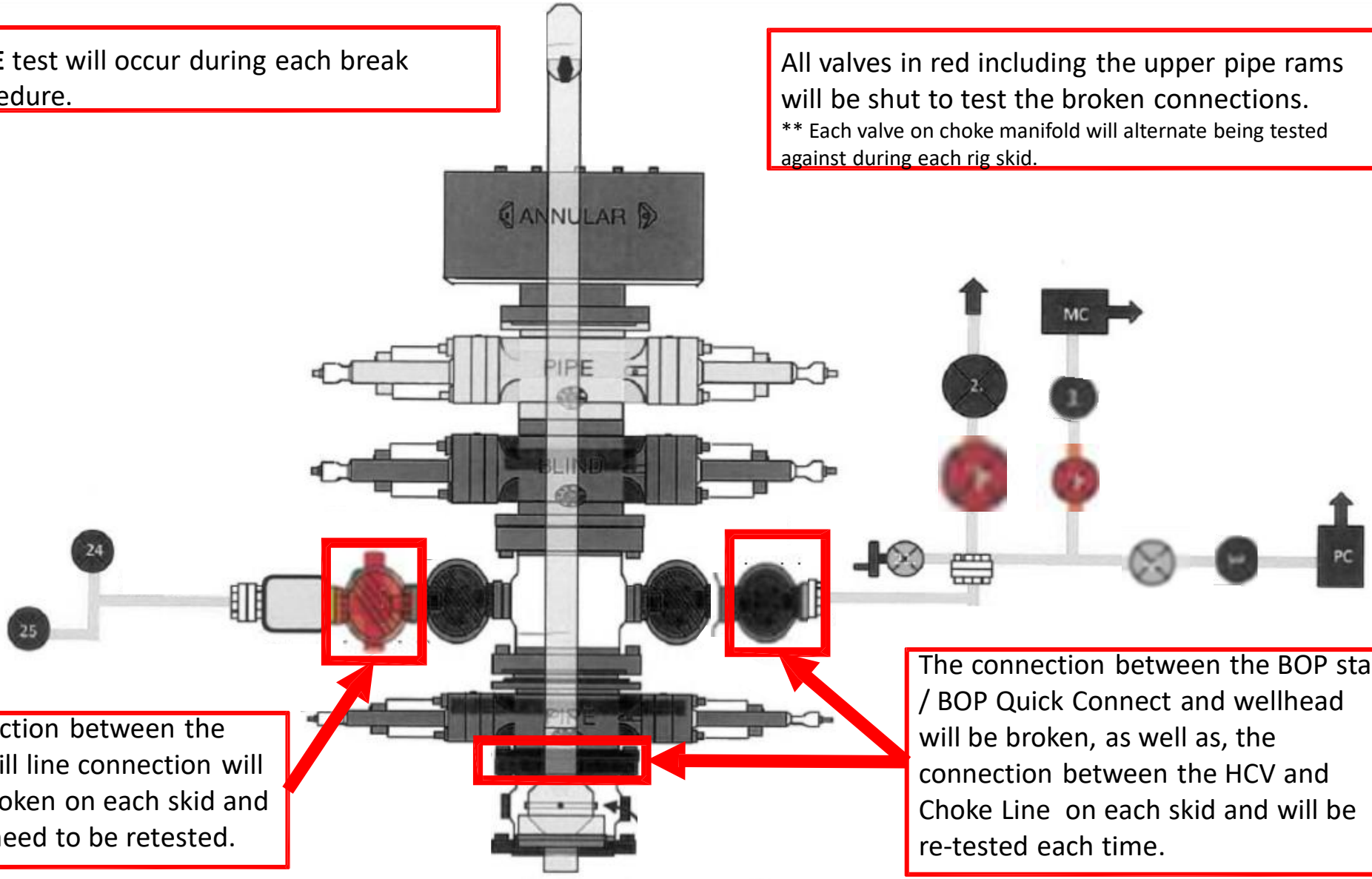
3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.

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.

BLACK GOLD®

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

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

NEW CHOKE HOSE
INSTALLED 02-10-2024

CERTIFICATE OF CONFORMANCE

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

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

SIGNATURE: F. OSPINOS

TITLE: QUALITY ASSURANCE

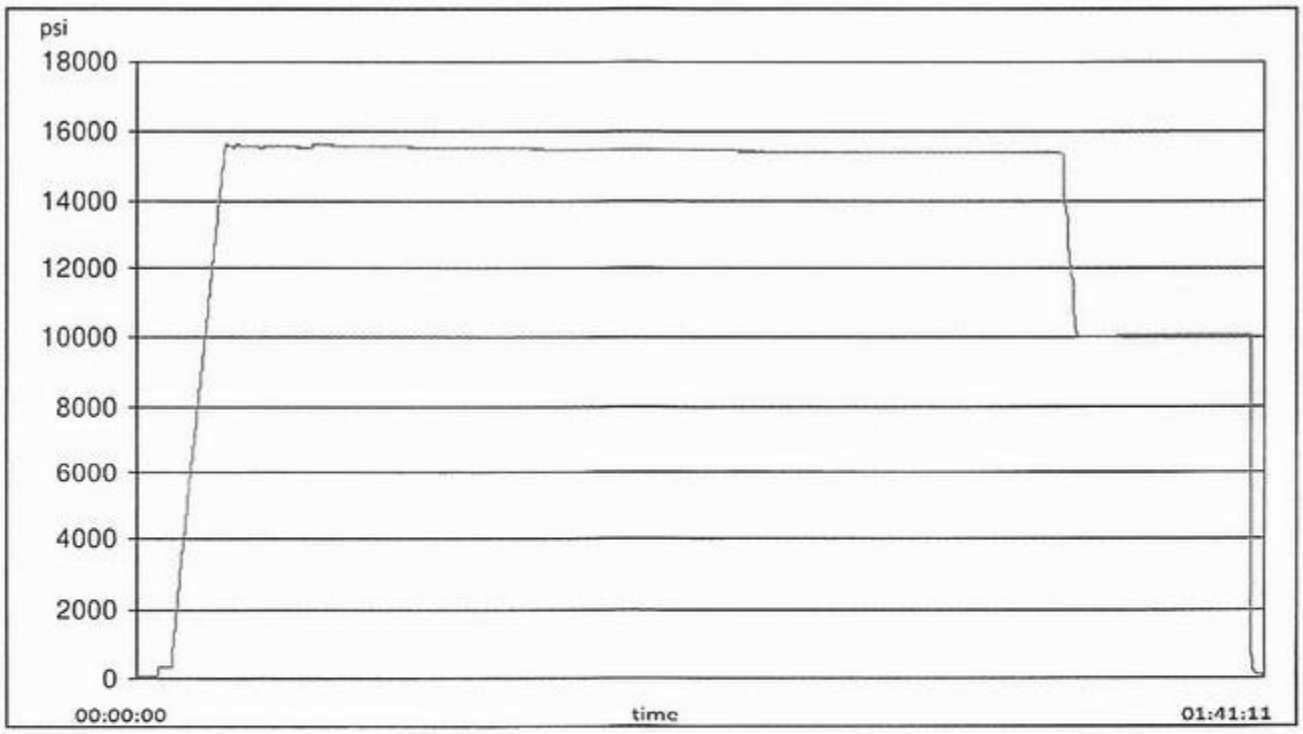
DATE: 1/25/2024

H3-15716

1/25/2024 11:48:06 AM

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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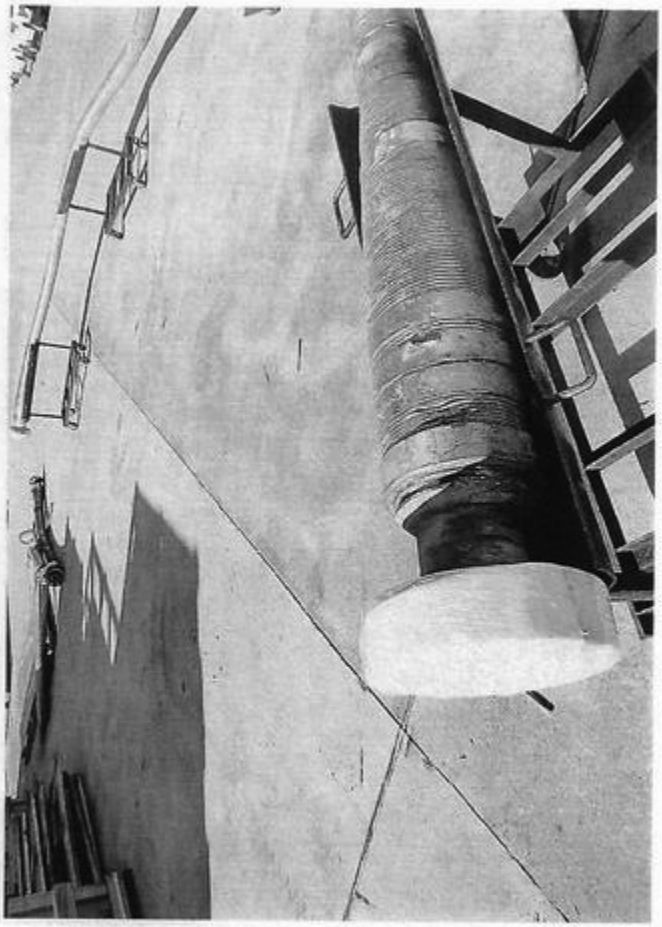
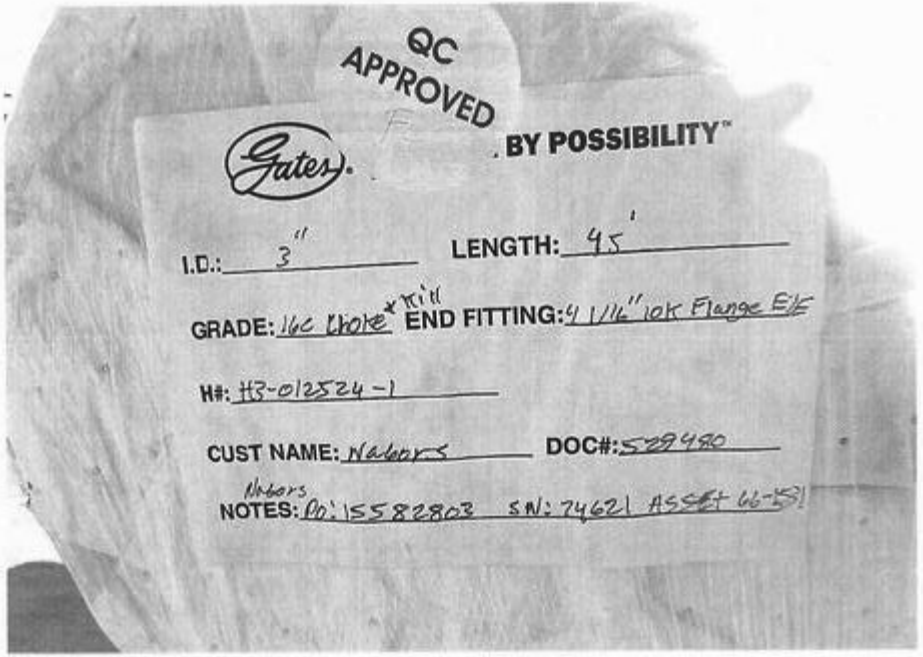
TEST REPORT

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





XTO Permian Operating, LLC Offline Cementing Variance Request

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

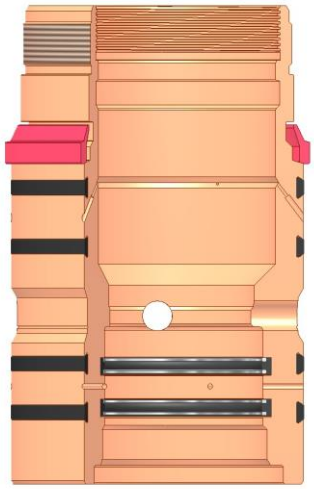
1. Cement Program

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

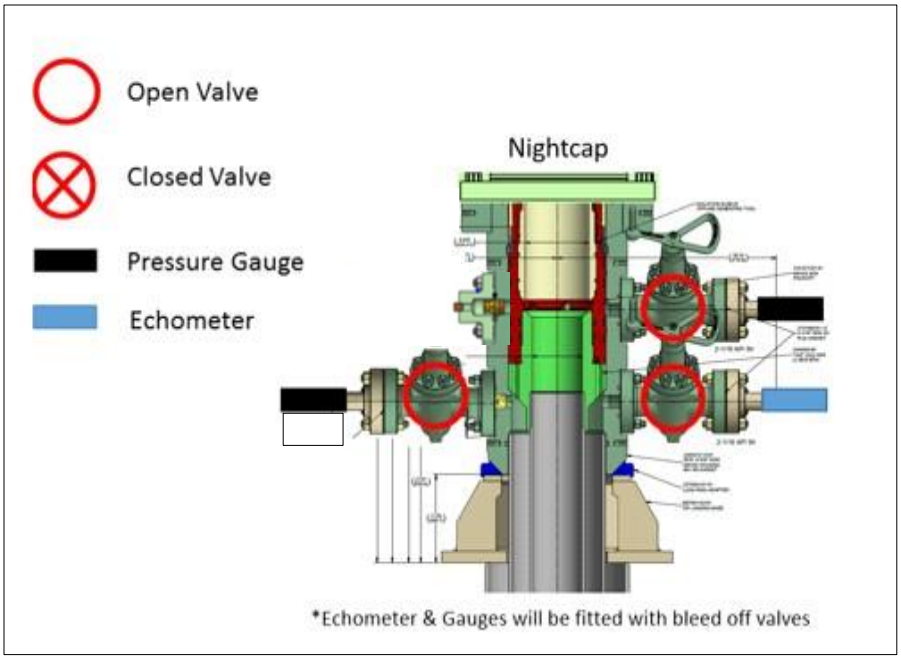
2. Offline Cementing Procedure

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

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



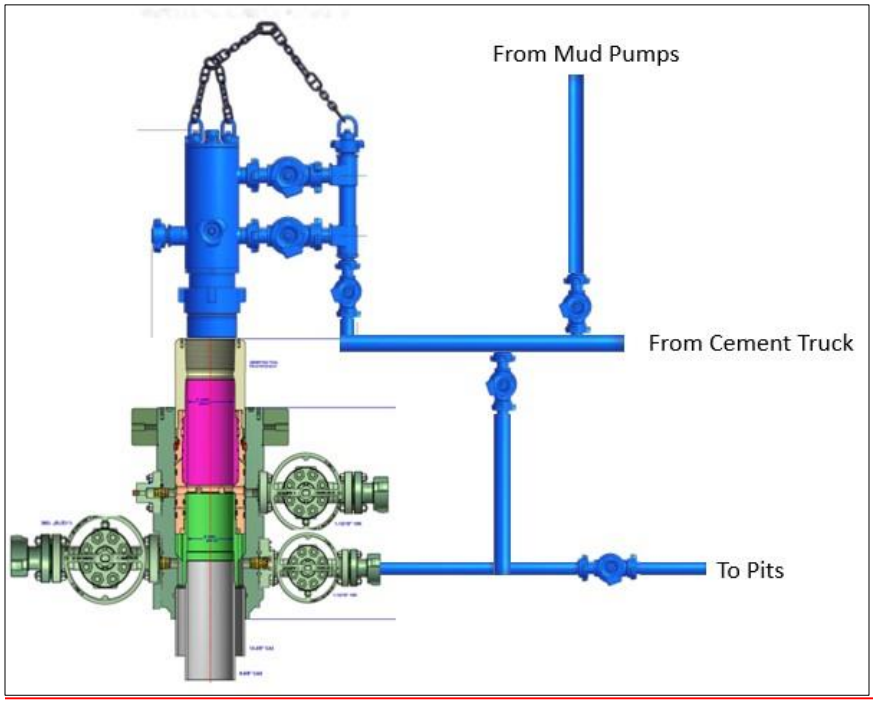
Annular packoff with both external and internal seals



Wellhead diagram during skidding operations

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

XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during offline cementing operations

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

ExxonMobil

Offline Production Cementing

Delaware Basin | 18 March 2025

Energy lives here™

Variance Request for Offline Production Cementing

Proposal: allow wells that meet set criteria to perform production casing cement jobs offline, consistent with ExxonMobil's extensive experience safely and effectively cementing production casing strings offline in Texas

Supporting Materials:

- Criteria for offline production cementing
- Proposed procedure
- Process and equipment
- Barrier comparison

Criteria for Offline Cementing

The following conditions must be met to proceed with offline production cementing on Wolfcamp target formations or shallower:

a) *Casing hanger successfully landed in the wellhead*
b) *Ability to circulate overbalanced mud weight*
c) *Initiate offline cementing operations within 24hr of landing casing*
d) *All well control barriers test successfully and BLM notified of intent to perform offline production cementing prior to N/D BOP*
e) *No offset frac operations within 1 mile and within the same target horizon*
f) *Well Control certified ExxonMobil Operations Supervisor to be present during offline cementing operation to monitor returns*
g) *Drill ahead operations will not begin on next well until offline production cement operations have concluded*

Offline Cementing Procedure

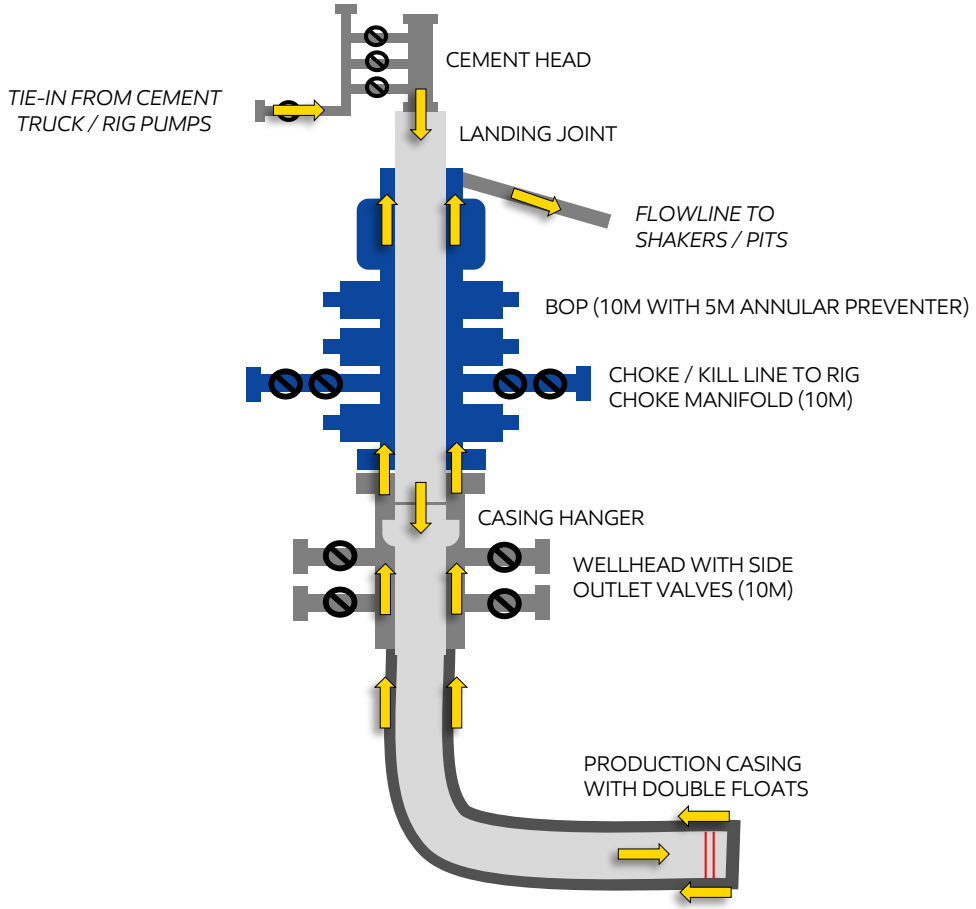
Trigger to reevaluate plan

1. **Land production casing hanger** *If casing hanger cannot be landed, cementing will be performed online*
2. Flow check and **confirm the well is static on the casing and annulus**. *If flow is observed, cementing will be performed online*
3. **Lay down landing joint**
4. **Install and test pack-off assembly**
   a) Pressure test the seal assembly per wellhead provider's procedure to confirm integrity to 250 / 10,000psi
5. **Install back-pressure valve** (BPV, rated to 10,000psi) in hanger per wellhead provider's procedure
6. **Confirm the well is static**
   a) Flow indicates failure of hydrostatic barrier or mechanical barriers and underbalanced well conditions. *If flow is observed, cementing will be performed online*
   b) Notify BLM of intent to proceed with nipple down and offline cementing
7. With the well secured and BLM notified; **nipple down BOP and skid rig** to next well on pad
   a) Note, verify offline cementing criteria is met before N/D BOP. If unable to meet criteria, cement job will be performed online
8. **Install and test gate valve**
   a) Test connection between wellhead adapter seals against hanger neck and ring gasket to 250 / 10,000 psi for 5 minutes
9. **Remove BPV from casing**
10. **Rig up cement head and cementing lines**
11. **Perform production cement job** as per procedure
    a) Confirm flowpath and valve alignment; default routing to take returns from casing upper side outlet valves → offline cementing manifold → shakers / pits
    b) If elevated gas or flow trend observed, reroute returns through choke manifold for ability to hold backpressure to maintain well control and route mud returns to MGS
12. **Confirm well is static** and double floats are holding after cement job
    a) If double floats do not hold, the well can be secured by closing gate valve or cement head or by holding and monitoring pressure at the cement truck while WOC
13. **Rigdown surface equipment**
    a) Bleed any remaining line pressure and remove cement head
    b) Install BPV per wellhead providers recommended procedure
    c) Close upper casing side outlet valves, break and R/D offline cement lines
    d) Remove 10M gate valve and wellhead adapter
14. **Secure well**
    a) Install temporary abandonment cap

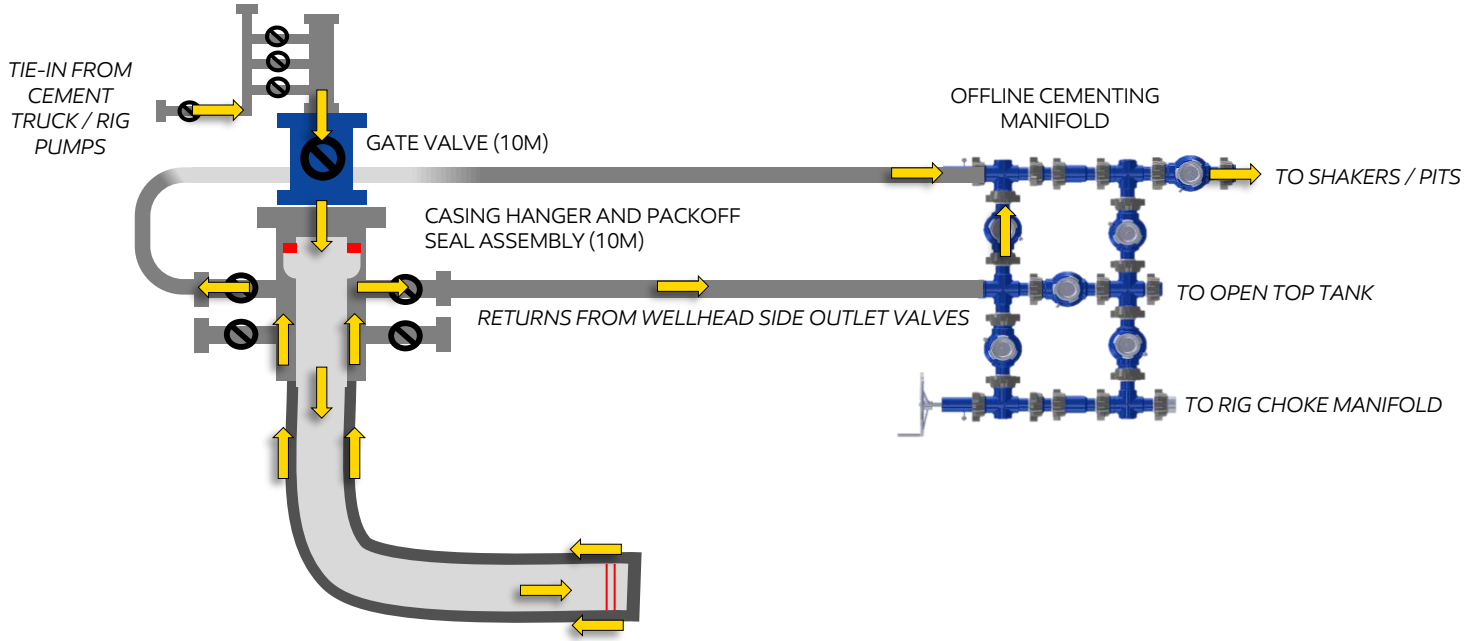
FLOWPATH WHILE CEMENTING

Process and Equipment

ONLINE CEMENTING



OFFLINE CEMENTING



KEY DIFFERENCES

1. *Rig BOP replaced by gate valve and WH adaptor assembly* (10M rated)
2. *Addition of offline cementing manifold and high pressure iron* to direct fluid returns to rig active system and/or choke manifold
3. *Packoff annulus barrier in place* and tested prior to cementing operations (10M rated)
4. *Cement truck* performs cement job displacement (vs rig pumps)

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Barrier Comparison

	ONLINE		OFFLINE (PROPOSED)	
	Casing	Annulus	Casing	Annulus
N/D BOP & Skid Rig			**1. Hydrostatic** 2. Double float valves 3. BPV	1. Hydrostatic 2. Packoff
Install Cement Head	1. Hydrostatic 2. Double float valves	1. Hydrostatic 2. BOP (annular, VBR)	1. Hydrostatic 2. Double float valves **3. Gate valve**	1. Hydrostatic **2. Packoff** 3. Wellhead Adaptor
Perform Cement Job	1. Double float valves 2. Cement Head	1. Hydrostatic 2. BOP (annular, VBR)	1. Double float valves 2. Cement Head **3. Gate valve**	1. Hydrostatic **2. Packoff** 3. Wellhead Adaptor
Remove Cement Head	1. Double float valves	1. Hydrostatic 2. BOP (annular, VBR)	1. Double float valves **2. Gate valve**	1. Hydrostatic **2. Packoff** 3. Wellhead Adaptor
N/D & Install TA Cap	1. Double float valves 2. BPV	1. Hydrostatic 2. Packoff	1. Double float valves 2. BPV	1. Hydrostatic 2. Packoff

ExxonMobil

Well Control Response Plan

The following well control response plan for offline cementing is the same as for online cementing.

1. **Pre-job design:** Cement job designed to define max pump rates to reduce ECD and avoid losses during cement job.
2. **Identify the influx / re-route return flow:** If an influx is observed, the cementing manifold would be re-routed to direct flow to the rig choke manifold (instead of the shakers). If gas was encountered or a kick was detected, continue pumping the job through the rig choke / gas buster while controlling annulus back pressure through the rig choke. Shut the well in once the job is finished (to ensure cement does not set up inside casing). Roles & responsibilities are as follows:
    - Onsite well site representative responsible for monitoring and helping to identify if an influx occurred with support from the rig crews.
    - Rig crew responsible for shutting in the well.
    - Onsite well site representative responsible for operating the rig choke manifold.
3. **Monitor pressure:** If well is shut-in, pressure monitored while cement is building compressive strength.
4. **Flow check:** Once sufficient time is allocated to build compressive strength, perform flow check.
5. **Shut-in:** If annulus pressure / flow is observed, shut-in the well at the casing valves.
6. **Kill the well:** Pump kill weight mud or cement (depending on well conditions) via bradenhead squeeze down the annulus using the rig pumps tied into the cementing manifold or the cement truck.
7. **Flow check:** Flow check the well to confirm static.


ExxonMobil

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.

Tenaris

TenarisHydril Wedge 441®

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

Outside Diameter	5.500 in.	**Wall Thickness**	0.361 in.	**Grade**	P110-ICY
Min. Wall Thickness	87.50 %	**Pipe Body Drift**	API Standard	**Type**	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry				Performance	
Nominal OD	5.500 in.	**Wall Thickness**	0.361 in.	**Body Yield Strength**	729 x1000 lb
Nominal Weight	20.00 lb/ft	**Plain End Weight**	19.83 lb/ft	**Min. Internal Yield Pressure**	14,360 psi
Drift	4.653 in.	**OD Tolerance**	API	**SMYS**	125,000 psi
Nominal ID	4.778 in.			**Collapse Pressure**	12,300 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	5.852 in.	**Tension Efficiency**	81.50 %	**Minimum**	15,000 ft-lb
Coupling Length	8.714 in.	**Joint Yield Strength**	594 x1000 lb	**Optimum**	16,000 ft-lb
Connection ID	4.778 in.	**Internal Pressure Capacity**	14,360 psi	**Maximum**	19,200 ft-lb
Make-up Loss	3.780 in.	**Compression Efficiency**	81.50 %		
Threads per inch	3.40	**Compression Strength**	594 x1000 lb	**Operation Limit Torques**	
Connection OD Option	Regular	**Max. Allowable Bending**	84.76 °/100 ft	**Operating Torque**	36,000 ft-lb
		External Pressure Capacity	12,300 psi	**Yield Torque**	42,000 ft-lb
				Buck-On	
				Minimum	19,200 ft-lb
				Maximum	20,700 ft-lb

Notes

This connection is fully interchangeable with:
Wedge 441® - 5.5 in. - 0.304 (17.00) in. (lb/ft)
Wedge 461® - 5.5 in. - 0.304 (17.00) / 0.361 (20.00) / 0.415 (23.00) in. (lb/ft)
Connections with Dopeless® Technology are fully compatible with the same connection in its doped version

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

Tenaris

TenarisHydril Wedge 511

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

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

Pipe Body Data

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

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	7.625 in.	**Tension Efficiency**	61.10 %	**Minimum**	5900 ft-lb
Connection ID	6.787 in.	**Joint Yield Strength**	653 x1000 lb	**Optimum**	7100 ft-lb
Make-up Loss	3.704 in.	**Internal Pressure Capacity**	11,070 psi	**Maximum**	10,300 ft-lb
Threads per inch	3.28	**Compression Efficiency**	73.80 %		
Connection OD Option	Regular	**Compression Strength**	788 x1000 lb	**Operation Limit Torques**	
		Max. Allowable Bending	45.83 °/100 ft	**Operating Torque**	55,000 ft-lb
		External Pressure Capacity	7360 psi	**Yield Torque**	82,000 ft-lb

Notes

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

Tenaris

TenarisHydril Wedge 511

Coupling	Pipe Body
Grade: **L80-IC**	Grade: **L80-IC**
Body: **Red**	1st Band: **Red**
1st Band: **Brown**	2nd Band: **Brown**
2nd Band: **-**	3rd Band: **Pale Green**
3rd Band: **-**	4th Band: **-**
	5th Band: **-**
	6th Band: **-**

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

Pipe Body Data

Geometry				Performance	
Nominal OD	7.625 in.	**Wall Thickness**	0.375 in.	**Body Yield Strength**	683 x1000 lb
Nominal Weight	29.70 lb/ft	**Plain End Weight**	29.06 lb/ft	**Min. Internal Yield Pressure**	6890 psi
Drift	6.750 in.	**OD Tolerance**	API	**SMYS**	80,000 psi
Nominal ID	6.875 in.			**Collapse Pressure**	5900 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	7.625 in.	**Tension Efficiency**	61.10 %	**Minimum**	5900 ft-lb
Connection ID	6.787 in.	**Joint Yield Strength**	417 x1000 lb	**Optimum**	7100 ft-lb
Make-up Loss	3.704 in.	**Internal Pressure Capacity**	6890 psi	**Maximum**	10,300 ft-lb
Threads per inch	328	**Compression Efficiency**	73.80 %		
Connection OD Option	Regular	**Compression Strength**	504 x1000 lb	**Operation Limit Torques**	
		Max. Allowable Bending	29.33 °/100 ft	**Operating Torque**	35,000 ft-lb
		External Pressure Capacity	5900 psi	**Yield Torque**	52,000 ft-lb

Notes

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

PECOS DISTRICT

SURFACE USE

CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating LLC
LEASE NO.:	NMLC 065705, NMLC065705B
COUNTY:	Eddy County, New Mexico

Wells:

Poker Lake Unit 18-19 BD 106H

Poker Lake Unit 18-19 BD 127H

Poker Lake Unit 18-30 BD 200H

Poker Lake Unit 18-30 BD 201H

Poker Lake Unit 18-30 BD 202H

Poker Lake Unit 18-30 BD 203H

Poker Lake Unit 18-19 BD 204H

Poker Lake Unit 18-19 BD 205H

Poker Lake Unit 18-19 BD 206H

Poker Lake Unit 18-19 BD 207H

Poker Lake Unit 18-19 BD 208H

Poker Lake Unit 18-19 BD 209H

Approval Date: 05/19/2025

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1. GENERAL PROVISIONS

The failure of the operator to comply with these requirements may result in the assessment of liquidated damages or penalties pursuant to 43 CFR 3163.1 or 3163.2. A copy of these conditions of approval shall be present on the location during construction, drilling and reclamation activity. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

1.1. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural resource (historic or prehistoric site or object) discovered by the operator, or any person working on the operator's behalf, on the public or federal land shall be immediately reported to the Authorized Officer. The operator shall suspend all operations in the immediate area (within 100ft) of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer, in conjunction with a BLM Cultural Resource Specialist, to determine appropriate actions to prevent the loss of significant scientific values. The operator shall be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the operator.

Traditional Cultural Properties (TCPs) are protected by NHPA as codified in 36 CFR 800 for possessing traditional, religious, and cultural significance tied to a certain group of individuals. Though there are currently no designated TCPs within the project area or within a mile of the project area, but it is possible for a TCP to be designated after the approval of this project. **If a TCP is designated in the project area after the project's approval, the BLM Authorized Officer will notify the operator of the following conditions and the duration for which these conditions are required.**

1. Temporary halting of all construction, drilling, and production activities to lower noise.
2. Temporary shut-off of all artificial lights at night.

The operator is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA), specifically NAGPRA Subpart B regarding discoveries, to protect human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered during project work. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and a BLM-CFO Authorized Officer will be notified immediately. The BLM will then be required to be notified, in writing, within 24 hours of the discovery. The written notification should include the geographic location by county and state, the contents of the discovery, and the steps taken to protect said discovery. You must also include any potential threats to the discovery and a conformation that all activity within 100ft of the discovery has ceased and work will not resume until written certification is issued. All work on the entire project must halt for a minimum of 3 days and work cannot resume until an Authorized Officer grants permission to do so.

Any paleontological resource discovered by the operator, or any person working on the operator's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. The operator will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the operator.

1.2. RANGELAND RESOURCES

1.2.1. **Cattleguards**

Where a permanent cattleguard is approved, an appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

1.2.2. **Fence Requirement**

Where entry granted across a fence line, the fence must be braced and tied off on both sides of the passageway prior to cutting. Once the work is completed, the fence will be restored to its prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

1.2.3. **Livestock Watering Requirement**

Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

1.3. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA, New Mexico Department of Agriculture, and BLM requirements and policies.

1.3.1 African Rue (Peganum harmala)

Spraying: The spraying of African Rue must be completed by a licensed or certified applicator. In order to attempt to kill or remove African Rue the proper mix of chemical is needed. The mix consists of 2% Arsenal (Imazapyr) and 2% Roundup (Glyphosate) along with a nonionic surfactant. Any other chemicals or combinations shall be approved by the BLM Noxious Weeds Coordinator prior to treatment. African Rue shall be sprayed in connection to any dirt working activities or disturbances to the site being sprayed. Spraying of African Rue shall be done on immature plants at initial growth through flowering and mature plants between budding and flowering stages. Spraying shall not be conducted after flowering when plant is fruiting. This will ensure optimal intake of chemical and decrease chances of developing herbicide resistance. After spraying, the operator or necessary parties must contact the Carlsbad Field Office to inspect the effectiveness of the application treatment to the plant species. No ground disturbing activities can take place until the inspection by the authorized officer is complete. The operator may contact the Environmental Protection Department or the BLM Noxious Weed Coordinator at (575) 234-5972 or BLM_NM_CFO_NoxiousWeeds@blm.gov.

Management Practices: In addition to spraying for African Rue, good management practices should be followed. All equipment should be washed off using a power washer in a designated containment area. The containment area shall be bermed to allow for containment of the seed to prevent it from entering any open areas of the nearby landscape. The containment area shall be excavated near or adjacent to the well pad at a depth of three feet and just large enough to get equipment inside it to be washed off. This will allow all seeds to be in a centrally located area that can be treated at a later date if the need arises.

1.4. LIGHT POLLUTION

1.4.1. **Downfacing**

All permanent lighting will be pointed straight down at the ground in order to prevent light spill beyond the edge of approved surface disturbance.

1.4.2. **Shielding**

All permanent lighting will use full cutoff luminaires, which are fully shielded (i.e., not emitting direct or indirect light above an imaginary horizontal plane passing through the lowest part of the light source).

1.4.3. **Lighting Color**

Lighting shall be 3,500 Kelvin or less (Warm White) except during drilling, completion, and workover operations. No bluish-white lighting shall be used in permanent outdoor lighting.

2. SPECIAL REQUIREMENTS

2.1. WATERSHED

The entire well pad(s) will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The topsoil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

2.1.1. **Tank Battery**

Tank battery locations will be lined and bermed. A 20-mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Secondary containment holding capacity must be large enough to contain 1 ½ times the content of the largest tank or 24-hourproduction, whichever is greater (displaced volume from all tanks within the berms MUST be subtracted from total volume of containment in calculating holding capacity). Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

2.1.2. **Buried/Surface Line(s)**

When crossing ephemeral drainages, the pipeline(s) will be buried to a minimum depth of 48 inches from the top of pipe to ground level. Erosion control methods such as gabions and/or rock aprons must be placed on both up and downstream sides of the pipeline crossing. In addition, curled (weed free) wood/straw fiber wattles/logs and/or silt fences must be placed on the downstream side for sediment control during construction and maintained until soils and vegetation have stabilized. Water bars must be placed within the corridor to divert and dissipate surface runoff. A pipeline access road is not permitted to cross ephemeral drainages. Traffic must be diverted to a preexisting route. Additional seeding may be required in floodplains and drainages to restore energy dissipating vegetation.

Prior to pipeline installation/construction a leak detection plan will be developed. The method(s) could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

2.1.3. **Electric Line(s)**

Any water erosion that may occur due to the construction of overhead electric line and during the life of the power line will be quickly corrected and proper measures will be taken to prevent future erosion. A power pole must not be placed in drainages, playas, wetlands, riparian areas, or floodplains and must span across the features at a distance away that does not promote further erosion.

2.1.4. **Temporary Use Fresh Water Frac Line(s)**

Once the temporary use exceeds the timeline of 180 days and/or with a 90 day extension status; further analysis will be required if the applicant pursues to turn the temporary pipeline into a permanent pipeline.

2.3 WILDLIFE

2.3.2. **Texas Hornshell Mussel**

Oil and Gas and Associated Infrastructure Mitigation Measures for Zone D – CCA Boundary Requirements:

- Provide CEHMM with the permit, lease, or other authorization form BLM, if applicable.
- Provide CEHMM with plats or other electronic media describing the new surface disturbance for the project.

2.4 VISUAL RESOURCE MANAGEMENT

2.5.1 **VRM IV**

Above-ground structures including meter housing that are not subject to safety requirements are painted a flat non-reflective paint color, Shale Green from the BLM Standard Environmental Color Chart (CC-001: June 2008).

Above-ground structures including meter housing that are not subject to safety requirements are painted a flat non-reflective paint color, Shale Green from the BLM Standard Environmental Color Chart (CC-001: June 2008).

3. CONSTRUCTION REQUIRENMENTS

3.1 CONSTRCUTION NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at BLM_NM_CFO_Construction_Reclamation@blm.gov at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and COAs on the well site and they shall be made available upon request by the Authorized Officer.

3.2 TOPSOIL

The operator shall strip the topsoil (the A horizon) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. No more than the top 6 inches of topsoil shall be removed. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (the B horizon and below) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

3.3 CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No reserve pits will be used for drill cuttings. The operator shall properly dispose of drilling contents at an authorized disposal site.

3.4 FEDERAL MINERAL PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

3.5 WELL PAD & SURFACING

Any surfacing material used to surface the well pad will be removed at the time of interim and final reclamation.

3.6 EXCLOSURE FENCING (CELLARS & PITS)

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the well cellar is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

The operator will also install and maintain mesh netting for all open well cellars to prevent access to smaller wildlife before and after drilling operations until the well cellar is free of fluids and the operator. Use a maximum netting mesh size of 1 ½ inches. The netting must not have holes or gaps.

3.7 ON LEASE ACESS ROAD

3.7.1 **Road Width**

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

3.7.2 **Surfacing**

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements will be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

3.7.3 **Crowning**

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

3.7.4 **Ditching**

Ditching shall be required on both sides of the road.

3.7.5 **Turnouts**

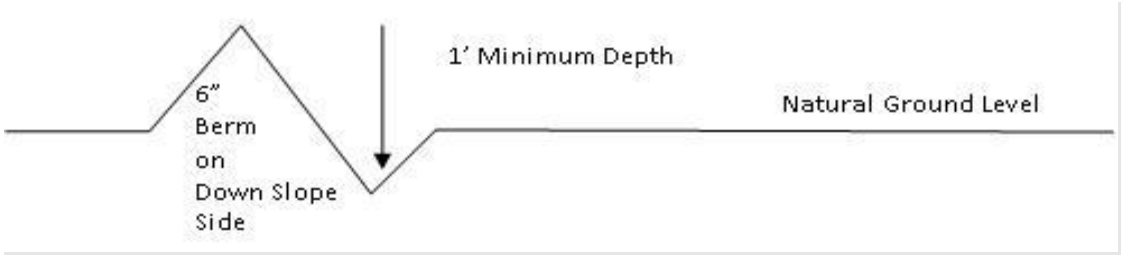
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

3.7.6 **Drainage**

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, leadoff ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

□xample - On a 4□ road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4□ road slope: $\frac{400'}{4}$ + 100' □ 200' lead-off ditch interval

3.7.7 **Public Access**

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Construction Steps

1. Salvage topsoil
2. Construct road
3. Redistribute topsoil
4. Revegetate slopes

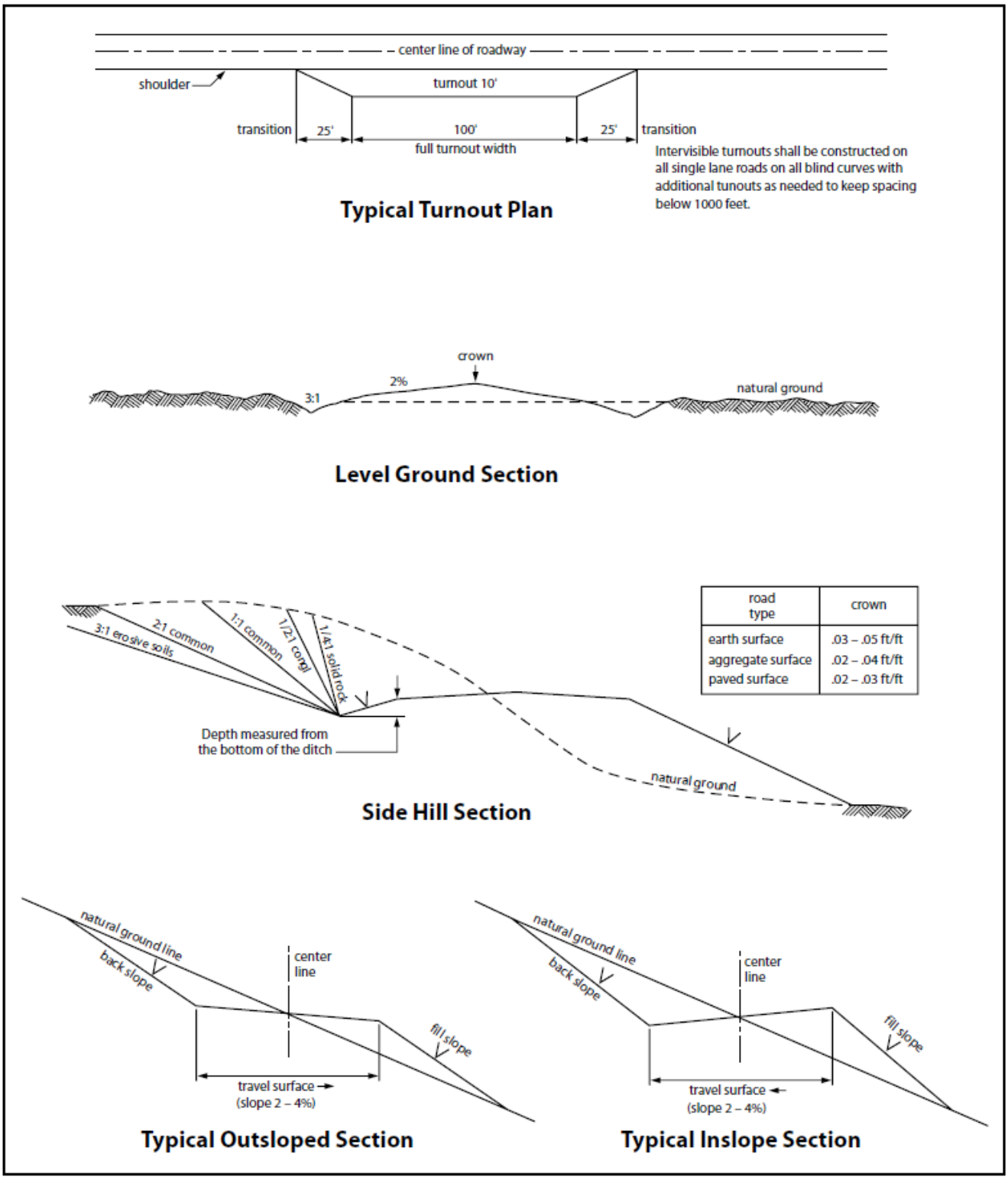


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

Approval Date: 05/19/2025

4. PIPELINES

- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, passages, or voids are intersected by trenching, and no pipe will be laid in the trench at that point until clearance has been issued by the Authorized Officer.
- A leak detection plan **will be submitted to the BLM Carlsbad Field Office for approval** prior to pipeline installation. The method could incorporate gauges to detect pressure drops, situating values and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.
- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

4.1 BURIED PIPELINES

A copy of the application (APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request a copy of your permit during construction to ensure compliance with all stipulations.

Operator agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The Operator shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this APD.

2. The Operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the operator shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the pipeline corridor or on facilities authorized under this APD. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The operator agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Pipeline corridor (unless the release or threatened release is wholly unrelated to the operator's activity on the pipeline corridor), or resulting from the activity of the Operator on the pipeline corridor. This agreement applies without regard to whether a release is caused by the operator, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant is discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of operator, regardless of fault. Upon failure of operator to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and

fish and wildlife habitats, at the full expense of the operator. Such action by the Authorized Officer shall not relieve operator of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized pipeline corridor.

6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.

7. The maximum allowable disturbance for construction in this pipeline corridor will be 30 feet:

   - Blading of vegetation within the pipeline corridor will be allowed: maximum width of blading operations will not exceed **20** feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation*.)

   - Clearing of brush species within the pipeline corridor will be allowed: maximum width of clearing operations will not exceed **30** feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)

   - The remaining area of the pipeline corridor (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)

8. The operator shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately ___6___ inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.

9. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this pipeline corridor and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire pipeline corridor shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted, and a 6-inch berm will be left over the ditch line to allow for settling back to grade.

10. The pipeline will be identified by signs at the point of origin and completion of the pipeline corridor and at all road crossings. At a minimum, signs will state the operator's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

11. The operator shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the operator before maintenance begins. The operator will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the operator to construct temporary deterrence structures.

12. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

13. Escape Ramps - The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them alive at least 100 yards from the trench.
b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30-degree slope and spaced no more than 500 feet apart) shall be placed in the trench. Before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them alive at least 100 yards from the trench.

4.2 SURFACE PIPELINES

A copy of the APD and attachments, including stipulations, survey plat(s) and/or map(s), shall be on location during construction. BLM personnel may request to review a copy of your permit during construction to ensure compliance with all stipulations.

Operator agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. Operator shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this APD.

2. Operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, Operator shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC § 2601 et seq. (1982) with regard to any toxic substances that are used, generated by or stored on the pipeline corridoror on facilities authorized under this APD (see 40 CFR, Part 702-799 and in particular, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193). Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. Operator agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. § 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Pipeline corridor (unless the release or threatened release is wholly unrelated to activity of the Operator's activity on the Pipeline corridor), or resulting from the activity of the Operator on the pipeline corridor. This provision applies without regard to whether a release is caused by Operator, its agent, or unrelated third parties.

4. Operator shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. Operator shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the pipeline corridor or permit area:

   a. Activities of Operator including, but not limited to: construction, operation, maintenance, and termination of the facility;

   b. Activities of other parties including, but not limited to:
      (1) Land clearing
      (2) Earth-disturbing and earth-moving work
      (3) Blasting
      (4) Vandalism and sabotage

   c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars ($1,000,000)

for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant is discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of Operator, regardless of fault. Upon failure of Operator to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as they deem necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of Operator. Such action by the Authorized Officer shall not relieve Operator of any responsibility as provided herein.

6. All construction and maintenance activity shall be confined to the authorized pipeline corridor width of 30-feet. If the pipeline route follows an existing road or buried pipeline corridor, the surface pipeline shall be installed no farther than 10 feet from the edge of the road or buried pipeline corridor. If existing surface pipelines prevent this distance, the proposed surface pipeline shall be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity shall be confined to existing roads or pipeline corridors.

7. No blading or clearing of any vegetation shall be allowed unless approved in writing by the Authorized Officer.

8. Operator shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky of duney areas, the pipeline shall be "snaked" around hummocks and dunes rather than suspended across these features.

9. The pipeline shall be buried with a minimum of 6 inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.

10. The operator shall minimize disturbance to existing fences and other improvements on public lands. The operator is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The operator will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

11. In those areas where erosion control structures are required to stabilize soil conditions, the operator will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the operator to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" – Shale Green, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.

13. The pipeline will be identified by signs at the point of origin and completion of the pipeline corridor and at all road crossings. At a minimum, signs will state the operator's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.

14. The operator shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the operator. The operator will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.

15. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, powerline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

16. Surface pipelines shall be less than or equal to 4 inches and a working pressure below 125 psi.

4.3 OVERHEAD ELECTRIC LINES

A copy of the APD and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Operator agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The operator shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this APD.
2. The operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the operator shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the powerline corridor or on facilities authorized under this powerline corridor. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The operator agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Powerline corridor(unless the release or threatened release is wholly unrelated to the operator's activity on the powerline corridor), or resulting from the activity of the Operator on the powerline corridor. This agreement applies without regard to whether a release is caused by the operator, its agent, or unrelated third parties.
4. There will be no clearing or blading of the powerline corridor unless otherwise agreed to in writing by the Authorized Officer.
5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006 . The operator shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this powerline corridor, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the operator without liability or expense to the United States.

6. Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.
7. The operator shall minimize disturbance to existing fences and other improvements on public lands. The operator is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The operator will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
8. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.
9. Upon cancellation, relinquishment, or expiration of this APD, the operator shall comply with those abandonment procedures as prescribed by the Authorized Officer.
10. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this APD, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.
11. Special Stipulations:
    - For reclamation remove poles, lines, transformer, etc. and dispose of properly. Fill in any holes from the poles removed.

4.4 RANGLAND MITIGATION FOR PIPELINES

4.5.1 **Fence Requirement**

Where entry is granted across a fence line, the fence must be braced and tied off on both sides of the passageway with H-braces prior to cutting. Once the work is completed, the fence will be restored to its prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment operator prior to crossing any fence(s).

4.5.2 **Cattleguards**

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at road-fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

4.5.3 **Livestock Watering Requirement**

Structures that provide water to livestock, such as windmills, pipelines, drinking troughs, and earthen reservoirs, will be avoided by moving the proposed action.

Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment operator if any damage occurs to structures that provide water to livestock.

- Livestock operators will be contacted, and adequate crossing facilities will be provided as needed to ensure livestock are not prevented from reaching water sources because of the open trench.
- Wildlife and livestock trails will remain open and passable by adding soft plugs (areas where the trench is excavated and replaced with minimal compaction) during the construction phase. Soft plugs with ramps on either side will be left at all well-defined livestock and wildlife trails along

the open trench to allow passage across the trench and provide a means of escape for livestock and wildlife that may enter the trench.

- Trenches will be backfilled as soon as feasible to minimize the amount of open trench. The Operator will avoid leaving trenches open overnight to the extent possible and open trenches that cannot be backfilled immediately will have escape ramps (wooden) placed at no more than 2,500 feet intervals and sloped no more than 45 degrees.

5. PRODUCTION (POST DRILLING)

5.1 WELL STRUCTURES & FACILITIES

5.1.1 **Placement of Production Facilities**

Production facilities must be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

5.1.2 **Exclosure Netting (Open-top Tanks)**

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

5.1.3. Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

5.1.4. Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone*.) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

5.1.5. Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

6. RECLAMATION

Stipulations required by the Authorized Officer on specific actions may differ from the following general guidelines

6.1 ROAD AND SITE RECLAMATION

Any roads constructed during the life of the well will have the caliche removed or linear burial. If contaminants are indicated then testing will be required for chlorides and applicable contaminate anomalies for final disposal determination (disposed of in a manner approved by the Authorized Officer within Federal, State and Local statutes, regulations, and ordinances) and seeded to the specifications in sections 6.5 and 6.6.

6.2 EROSION CONTROL

Install erosion control berms, windrows, and hummocks. Windrows must be level and constructed perpendicular to down-slope drainage; steeper slopes will require greater windrow density. Topsoil between windrows must be ripped to a depth of at least 12”, unless bedrock is encountered. Any large boulders pulled up during ripping must be deep-buried on location. Ripping must be perpendicular to down-slope. The surface must be left rough in order to catch and contain rainfall on-site. Any trenches resulting from erosion cause by run-off shall be addressed immediately.

6.3 INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations must undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators must work with BLM surface protection specialists (BLM_NM_CFO_Construction_Reclamation@blm.gov) to devise the best strategies to reduce the size of the location. Interim reclamation must allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche and any other surface material is required. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided in section 6.6.

Upon completion of interim reclamation, the operator shall submit a Sundry Notice, Subsequent Report of Reclamation (Form 3160-5).

6.4 FINAL ABANDONMENT & RECLAMATION

Prior to surface abandonment, the operator shall submit a Notice of Intent Sundry Notice and reclamation plan.

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding will be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM. After earthwork and seeding is completed, the operator is required to submit a Sundry Notice, Subsequent Report of Reclamation.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (BLM_NM_CFO_Construction_Reclamation@blm.gov).

6.5 SEEDING TECHNIQUES

Seeds shall be hydro-seeded, mechanically drilled, or broadcast, with the broadcast-seeded area raked, ripped or dragged to aid in covering the seed. The seed mixture shall be evenly and uniformly planted over the disturbed area.

6.6 SOIL SPECIFIC SEED MIXTURE

The lessee/permitee shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the Authorized Officer.

Seed land application will be accomplished by mechanical planting using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area. Smaller/heavier seeds tend to drop the bottom of the drill and are planted first; the operator shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory BLM or Soil Conservation

District stand is established as determined by the Authorized Officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding or until several months of precipitation have occurred, enabling a full four months of growth, with one or more seed generations being established.

Seed Mixture 2, for Sandy Site

Species to be planted in pounds of pure live seed* per acre:

Species	lb/acre
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

*Pounds of pure live seed:

Pounds of seed **x** percent purity **x** percent germination = pounds pure live seed

Approval Date: 05/19/2025

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DRILLING PLAN: BLM COMPLIANCE
(Supplement to BLM 3160-3)

XTO Energy Inc.
POKER LAKE UNIT 18-30 BD 203H
Projected TD: 23007.36' MD / 10072' TVD
SHL: 265' FNL & 2305' FEL , Section 18, T25S, R30E
BHL: 2646' FNL & 1474' FEL , Section 30, T25S, R30E
EDDY County, NM

1. Geologic Name of Surface Formation

A. Quaternary

2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	712'	Water
Top of Salt	1142'	Water
Base of Salt	3319'	Water
Delaware	3538'	Water
Brushy Canyon	5705'	Water/Oil/Gas
Bone Spring	7308'	Water
Avalon	7475'	Water/Oil/Gas
1st Bone Spring	8067'	Water/Oil/Gas
2nd Bone Spring	8516'	Water/Oil/Gas
3rd Bone Spring	9386'	Water/Oil/Gas
Target/Land Curve	10072'	Water/Oil/Gas

*** Hydrocarbons @ Brushy Canyon
*** Groundwater depth 40' (per NM State Engineers Office).

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 9.625 inch casing @ 812' (330' above the salt) and circulating cement back to surface. The intermediate will isolate from the top of salt down to the next casing seat by setting 7.625 inch casing at 9223.17' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 23007.36 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 8923.17 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 812'	9.625	40	J-55	BTC	New	1.73	7.75	19.40
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	3.03	2.86	2.04
8.75	4000' – 9223.17'	7.625	29.7	HC L-80	Flush Joint	New	2.20	2.48	2.62
6.75	0' – 9123.17'	5.5	20	RY P-110	Semi-premium/ Freedom HTQ	New	1.05	2.29	2.15
6.75	9123.17' - 23007.36'	5.5	20	RY P-110	Semi-flush/ Talon HTQ	New	1.05	2.08	2.15

· XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing.

Wellhead:

XTO will utilize a 3 string Multi-bowl system.

4. Cement Program

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.

Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 815'

Lead: 170 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft3/sx, 10.13 gal/sx water)
Tail: 130 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
Top of Cement: Surface
Compressives: 12-hr = 900 psi 24 hr = 1500 psi

Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 9223.17'

1st Stage
Optional Lead: 310 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)
TOC: Surface
Tail: 320 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
TOC: Brushy Canyon @ 5705
Compressives: 12-hr = 900 psi 24 hr = 1150 psi

2nd Stage
Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft3/sx, 9.61 gal/sx water)
Tail: 640 sxs Class C (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)
Top of Cement: 0
Compressives: 12-hr = 900 psi 24 hr = 1150 psi

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 (5705') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

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

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

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

Production Casing: 5.5, 20 New Semi-Flush, RY P-110 casing to be set at +/- 23007.36'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 8923.17 feet
Tail: 970 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 9423.17 feet
Compressives: 12-hr = 800 psi 24 hr = 1500 psi

5. Pressure Control Equipment

Once the permanent WH is installed on the casing, the blow out preventer equipment (BOP) will consist of a 5M Hydril Annular and a 10M Triple Ram BOP.

All BOP testing will be done by an independent service company. Operator will test as per 43 CFR3172

A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold.

XTO requests a variance to be able to batch drill this well if necessary. In doing so, XTO will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per Cactus recommendations, XTO will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and both intermediate strings are all completed, XTO will begin drilling the production hole on each of the wells.

A break testing 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.

XTO requests a variance to utilize a spudder rig.

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6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)	Additional Comments
0' - 812'	12.25	FW/Native	8.4-8.9	35-40	NC	Fresh water or native water
812' - 9223.17'	8.75	Saturated brine for salt interval / Direct Emulsion	9-9.5	30-32	NC	Fully saturated salt across salado / salt
9223.17' - 23007.36'	6.75	OBM	10.2-10.7	50-60	NC - 20	N/A

The necessary mud products for weight addition and fluid loss control will be on location at all times.

Spud with fresh water/native mud. Drill out from under surface casing with Saturated Salt. A saturated salt brine 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.

7. Auxiliary Well Control and Monitoring Equipment

A. A Kelly cock will be in the drill string at all times.
B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
C. H2S monitors will be on location when drilling below the 9.625 casing.

8. Logging, Coring and Testing Program

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 165 to 185 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid.

10. Anticipated Starting Date and Duration of Operations

Anticipated spud date will be after BLM approval. Move in operations and drilling is expected to take 40 days.

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating LLC
WELL NAME & NO.:	Poker Lake Unit 18-30 BD 203H
LOCATION:	Section 18, T.25S., R.30E.
COUNTY:	Eddy County

COA

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

A. HYDROGEN SULFIDE

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

Possibility of water flows in the Salado
Possibility of lost circulation in the Red Beds, Rustler, and Delaware.
Abnormal pressures may be encountered within the 3rd Bone Spring and Wolfcamp Formations.

 Approval Date: 05/19/2025

B. CASING

1. The **9-5/8** inch surface casing shall be set at approximately **812** 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. The surface hole shall be **12-1/4** inch in diameter.

    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 **7-5/8** inch intermediate casing is:

    - Cement to surface. If cement does not circulate see B.1.a, c-d above.

Operator has proposed to pump down 9-5/8" X 7-5/8" 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 7-5/8" 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 between second stage BH and top out. Operator must run one CBL per Well Pad.

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

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

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

    - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

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

2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **9-5/8** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **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** i must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months.

E. SPECIAL REQUIREMENT (S)

BOPE Break Testing Variance

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

GENERAL REQUIREMENTS

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

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

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

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

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
    a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
    b. When the operator proposes to set surface casing with Spudder Rig
        i. Notify the BLM when moving in and removing the Spudder Rig.
        ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
        iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.

2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
    i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    iii. Manufacturer representative shall install the test plug for the initial BOP test.
    iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
    v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
    i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However,

if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

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

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

iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

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

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

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

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

JS 4/28/2025

Approval Date: 05/19/2025

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

General Information
Phone: (505) 629-6116

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

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

ACKNOWLEDGMENTS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 507596
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

☑	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.

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

CONDITIONS

Operator:	OGRID:
XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	373075
	Action Number: 507596
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
mvenkatesh	Cement is required to circulate on both surface and intermediate1 strings of casing.	9/19/2025
mvenkatesh	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	9/19/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	9/22/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	9/22/2025
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.	9/22/2025
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.	9/22/2025