Form 3160-3
(June 2015)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: NMLC061634B

6. If Indian, Allotee or Tribe Name:

1a. Type of work: ☑ DRILL ☐ REENTER

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

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

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

8. Lease Name and Well No.: POKER LAKE UNIT 30 BS 310H

2. Name of Operator: XTO PERMIAN OPERATING LLC

9. API Well No.: 30-015-55949

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

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

10. Field and Pool, or Exploratory: WC-015 G-06 S243119C/BONE SPRING

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

At surface: SWNE / 2435 FNL / 1919 FEL / LAT 32.101845 / LONG -103.815086

At proposed prod. zone: SWSE / 50 FSL / 1650 FEL / LAT 32.064829 / LONG -103.814284

11. Sec., T. R. M. or Blk. and Survey or Area: SEC 30/T25S/R31E/NMP

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

12. County or Parish: EDDY

13. State: NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): 1919 feet

16. No of acres in lease:

17. Spacing Unit dedicated to this well: 440.0

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

19. Proposed Depth: 9783 feet / 23604 feet

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

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 3366 feet

22. Approximate date work will start*: 08/12/2024

23. Estimated duration: 45 days

24. Attachments

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

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

25. Signature: (Electronic Submission)

Name *(Printed/Typed)*: CASSIE EVANS / Ph: (432) 682-8873

Date: 09/29/2023

Title: Regulatory Analyst

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

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

Date: 07/12/2024

Title: Assistant Field Manager Lands & Minerals

Office: Carlsbad Field Office

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

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

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 07/12/2024

AFMSS

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

Application for Permit to Drill

APD Package Report

Date Printed:

APD ID:	Well Status:
APD Received Date:	Well Name:
Operator:	Well Number:

APD Package Report Contents

- Form 3160-3

- Operator Certification Report

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

- Drilling Plan Report
- Drilling Plan Attachments
  -- Blowout Prevention Choke Diagram Attachment: 1 file(s)
  -- Blowout Prevention BOP Diagram Attachment: 1 file(s)
  -- Casing Taperd String Specs: 2 file(s)
  -- Casing Design Assumptions and Worksheet(s): 3 file(s)
  -- Hydrogen sulfide drilling operations plan: 5 file(s)
  -- Proposed horizontal/directional/multi-lateral plan submission: 1 file(s)
  -- Other Facets: 2 file(s)
  -- Other Variances: 4 file(s)

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

- PWD Report
- PWD Attachments
  -- None

- Bond Report
- Bond Attachments
  -- None

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(June 2015)

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OMB No. 1004-0137
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6. If Indian, Allotee or Tribe Name

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

8. Lease Name and Well No.

2. Name of Operator

9. API Well No.

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

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

At surface

At proposed prod. zone

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

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

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

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

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

24. Attachments

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

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

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

Title

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

Title	Office

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

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

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 07/12/2024

INSTRUCTIONS

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

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

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

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

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

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

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

NOTICES

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

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

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

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

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

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

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

Approval Date: 07/12/2024

Additional Operator Remarks

Location of Well

0. SHL: SWNE / 2435 FNL / 1919 FEL / TWSP: 25S / RANGE: 31E / SECTION: 30 / LAT: 32.101845 / LONG: -103.815086 (TVD: 0 feet, MD: 0 feet)

PPP: NWSE / 2657 FNL / 1649 FEL / TWSP: 25S / RANGE: 31E / SECTION: 30 / LAT: 32.101235 / LONG: -103.814218 (TVD: 9783 feet, MD: 10800 feet)

PPP: NWSE / 2655 FNL / 1634 FEL / TWSP: 25S / RANGE: 31E / SECTION: 31 / LAT: 32.086633 / LONG: -103.814245 (TVD: 9783 feet, MD: 16100 feet)

PPP: SWNE / 2435 FNL / 1650 FEL / TWSP: 25S / RANGE: 31E / SECTION: 30 / LAT: 32.101846 / LONG: -103.814217 (TVD: 9783 feet, MD: 10200 feet)

BHL: SWSE / 50 FSL / 1650 FEL / TWSP: 26S / RANGE: 31E / SECTION: 6 / LAT: 32.064829 / LONG: -103.814284 (TVD: 9783 feet, MD: 23604 feet)

BLM Point of Contact

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

Review and Appeal Rights

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

C-102	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 -55949	97975 97913	Wildcat G-06 S253002O; Bone Spring **WC-015 G-06 S243119C; Bone Spring**	
Property Code 327328	Property Name POKER LAKE UNIT 30 BS		Well Number 310H
ORGID No. 373075	Operator Name XTO PERMIAN OPERATING, LLC.		Ground Level Elevation 3,366'

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
G	30	25 S	31 E		2,435' FNL	1,919' FEL	32.101845	-103.815086	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	6	26 S	31 E		50' FSL	1,650' FEL	32.064829	-103.814284	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
440	INFILL		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
G	30	25 S	31 E		2,435' FNL	1,919' FEL	32.101845	-103.815086	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
G	30	25 S	31 E		2,435' FNL	1,650' FEL	32.101846	-103.814217	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	6	26 S	31 E		100' FSL	1,650' FEL	32.064966	-103.814284	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type	Ground Floor Elevation:
NMNM-071016X	☒ Horizontal ☐ Vertical	3,366'

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.

Terra Sebastian 12/12/2024

Signature Date

Terra Sebastian

Printed Name

terra.b.sebastian@exxonmobil.com

Email Address

SURVEYOR CERTIFICATIONS

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

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.

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	7/10/2024

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.

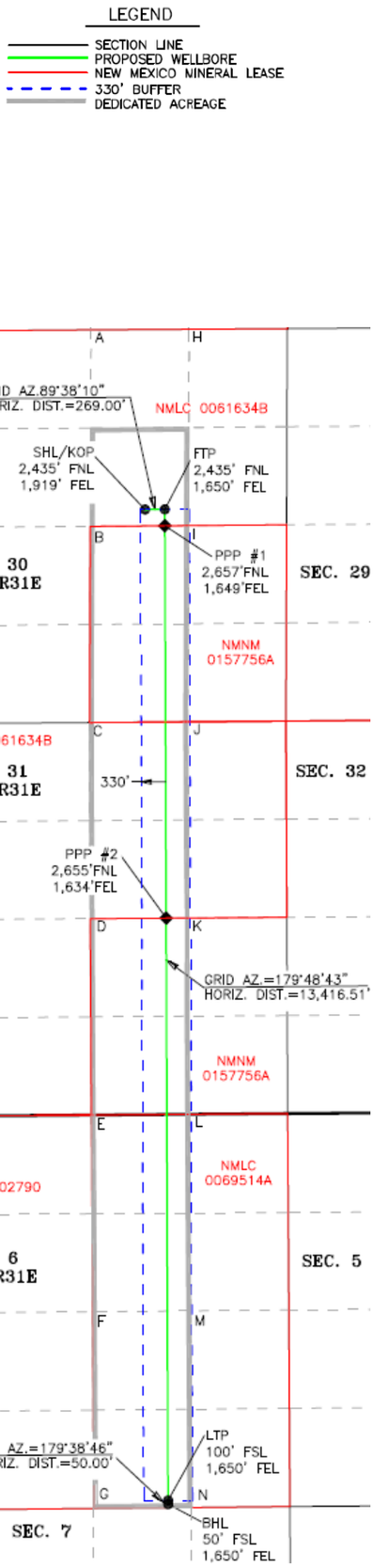
FSC INC SURVEYORS+ENGINEERS
2821 West 7th Street., Ste 200 - Fort Worth, TX 76107
Ph: 817.349.9800 - Fax: 979.732.5271
TBPE Firm 17957 | TBPLS Firm 10193887
www.fscinc.net

DATE:	11-13-2024	PROJECT NO:	2023040190
DRAWN BY:	LM	SCALE:	
CHECKED BY:	CH	SHEET:	1 OF 2
FIELD CREW:	IR	REVISION:	NO

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.



SHL/KOP (NAD83 NME)		**LTP (NAD83 NME)**	
Y =	401,173.5	Y =	387,758.9
X =	701,811.2	X =	702,124.1
LAT. =	32.101845 °N	LAT. =	32.064966 °N
LONG. =	103.815086 °W	LONG. =	103.814284 °W
FTP (NAD83 NME)		**BHL (NAD83 NME)**	
Y =	401,175.3	Y =	387,708.9
X =	702,080.2	X =	702,124.4
LAT. =	32.101846 °N	LAT. =	32.064829 °N
LONG. =	103.814217 °W	LONG. =	103.814284 °W
PPP #1 (NAD83 NME)		**PPP #2 (NAD83 NME)**	
Y =	400,953.0	Y =	395,640.8
X =	702,080.9	X =	702,098.3
LAT. =	32.101235 °N	LAT. =	32.086633 °N
LONG. =	103.814218 °W	LONG. =	103.814245 °W
CORNER COORDINATES (NAD83 NME)			
A - Y =	403,603.8 N ,	X =	701,083.0 E
B - Y =	400,944.7 N ,	X =	701,070.7 E
C - Y =	398,288.0 N ,	X =	701,058.4 E
D - Y =	395,633.7 N ,	X =	701,071.1 E
E - Y =	392,974.7 N ,	X =	701,083.8 E
F - Y =	390,312.1 N ,	X =	701,099.4 E
G - Y =	387,649.2 N ,	X =	701,115.0 E
H - Y =	403,612.5 N ,	X =	702,410.4 E
I - Y =	400,955.6 N ,	X =	702,400.1 E
J - Y =	398,298.0 N ,	X =	702,389.1 E
K - Y =	395,642.9 N ,	X =	702,401.5 E
L - Y =	392,985.5 N ,	X =	702,412.9 E
M - Y =	390,323.9 N ,	X =	702,428.8 E
N - Y =	387,661.9 N ,	X =	702,444.8 E
SHL/KOP (NAD27 NME)		**LTP (NAD27 NME)**	
Y =	401,115.6	Y =	387,701.3
X =	660,625.6	X =	660,938.0
LAT. =	32.101721 °N	LAT. =	32.064841 °N
LONG. =	103.814607 °W	LONG. =	103.813807 °W
FTP (NAD27 NME)		**BHL (NAD27 NME)**	
Y =	401,117.4	Y =	387,651.3
X =	660,894.6	X =	660,938.3
LAT. =	32.101722 °N	LAT. =	32.064704 °N
LONG. =	103.813738 °W	LONG. =	103.813806 °W
PPP #1 (NAD27 NME)		**PPP #2 (NAD27 NME)**	
Y =	400,895.0	Y =	395,583.0
X =	660,895.3	X =	660,912.5
LAT. =	32.101111 °N	LAT. =	32.086508 °N
LONG. =	103.813739 °W	LONG. =	103.813766 °W
CORNER COORDINATES (NAD27 NME)			
A - Y =	403,545.8 N ,	X =	659,897.5 E
B - Y =	400,886.7 N ,	X =	659,885.1 E
C - Y =	398,230.1 N ,	X =	659,872.7 E
D - Y =	395,575.9 N ,	X =	659,885.3 E
E - Y =	392,917.0 N ,	X =	659,897.9 E
F - Y =	390,254.4 N ,	X =	659,913.5 E
G - Y =	387,591.6 N ,	X =	659,929.0 E
H - Y =	403,554.5 N ,	X =	661,224.9 E
I - Y =	400,897.7 N ,	X =	661,214.5 E
J - Y =	398,240.1 N ,	X =	661,203.4 E
K - Y =	395,585.1 N ,	X =	661,215.8 E
L - Y =	392,927.8 N ,	X =	661,227.0 E
M - Y =	390,266.3 N ,	X =	661,242.8 E
N - Y =	387,604.3 N ,	X =	661,258.8 E

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Ph: 817.349.9800 - Fax: 979.732.5271
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www.fscinc.net

DATE:	11-13-2024	PROJECT NO:	2023040190
DRAWN BY:	LM	SCALE:	
CHECKED BY:	CH	SHEET:	2 OF 2
FIELD CREW:	IR	REVISION:	NO

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:** _09_/_24_/_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 30 BS 108H	TBD	30 T25S R31E	2435 FNL, 455 FWL	1,900	200	3,250	900	3,750	400
POKER LAKE UNIT 30 BS 109H	TBD	30 T25S R31E	2435 FNL, 485 FWL	1,900	200	3,250	900	3,750	400
POKER LAKE UNIT 30 BS 110H	TBD	30 T25S R31E	2435 FNL, 515 FWL	1,900	200	3,250	900	3,750	400
POKER LAKE UNIT 30 BS 208H	TBD	30 T25S R31E	2435 FNL, 1980 FWL	1,900	200	3,250	900	3,750	400
POKER LAKE UNIT 30 BS 209H	TBD	30 T25S R31E	2435 FNL, 2010 FWL	1,900	200	3,250	900	3,750	400
POKER LAKE UNIT 30 BS 210H	TBD	30 T25S R31E	2435 FNL, 2040 FWL	1,900	200	3,250	900	3,750	400
POKER LAKE UNIT 30 BS 308H	TBD	30 T25S R31E	2435 FNL, 1979 FEL	1,900	200	3,250	900	3,750	400
POKER LAKE UNIT 30 BS 309H	TBD	30 T25S R31E	2435 FNL, 1949 FEL	1,900	200	3,250	900	3,750	400
POKER LAKE UNIT 30 BS 310H	TBD	30 T25S R31E	2435 FNL, 1919 FEL	1,900	200	3,250	900	3,750	400
POKER LAKE UNIT 30 BS 408H	TBD	30 T25S R31E	2435 FNL, 659 FEL	1,900	200	3,250	900	3,750	400
POKER LAKE UNIT 30 BS 409H	TBD	30 T25S R31E	2435 FNL, 629 FEL	1,900	200	3,250	900	3,750	400
POKER LAKE UNIT 30 BS 410H	TBD	30 T25S R31E	2435 FNL, 599 FEL	1,900	200	3,250	900	3,750	400

IV. Central Delivery Point Name: PLU 30 BS CTB [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 30 BS 108H	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**

POKER LAKE UNIT 30 BS 109H	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**
POKER LAKE UNIT 30 BS 110H	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**
POKER LAKE UNIT 30 BS 208H	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**
POKER LAKE UNIT 30 BS 209H	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**
POKER LAKE UNIT 30 BS 210H	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**
POKER LAKE UNIT 30 BS 308H	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**
POKER LAKE UNIT 30 BS 309H	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**
POKER LAKE UNIT 30 BS 310H	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**
POKER LAKE UNIT 30 BS 408H	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**
POKER LAKE UNIT 30 BS 409H	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**
POKER LAKE UNIT 30 BS 410H	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**

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

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

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

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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

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

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

VI. Separation Equipment:

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

VII. Operational Practices

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

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

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

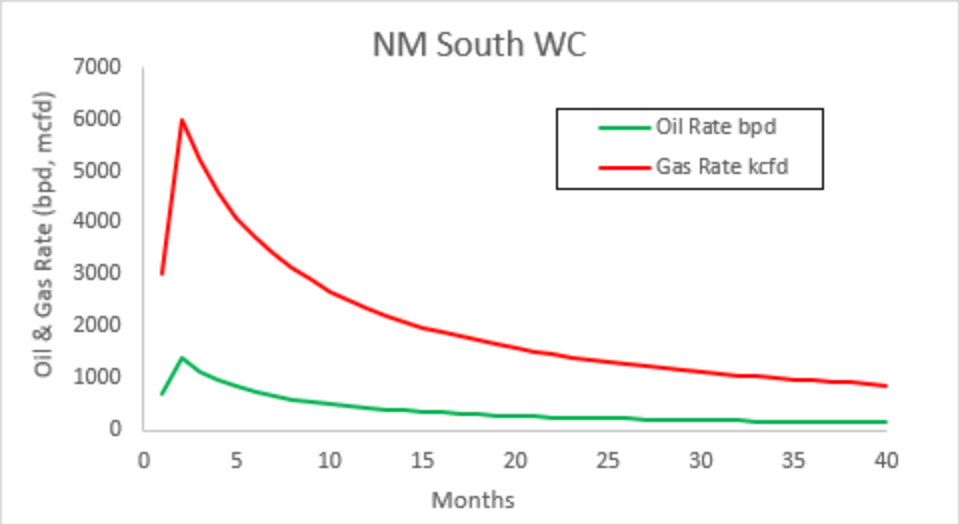
- During production operations, XTO Permian Operating LLC will take every practical effort to minimize waste of natural gas through venting and flaring by:

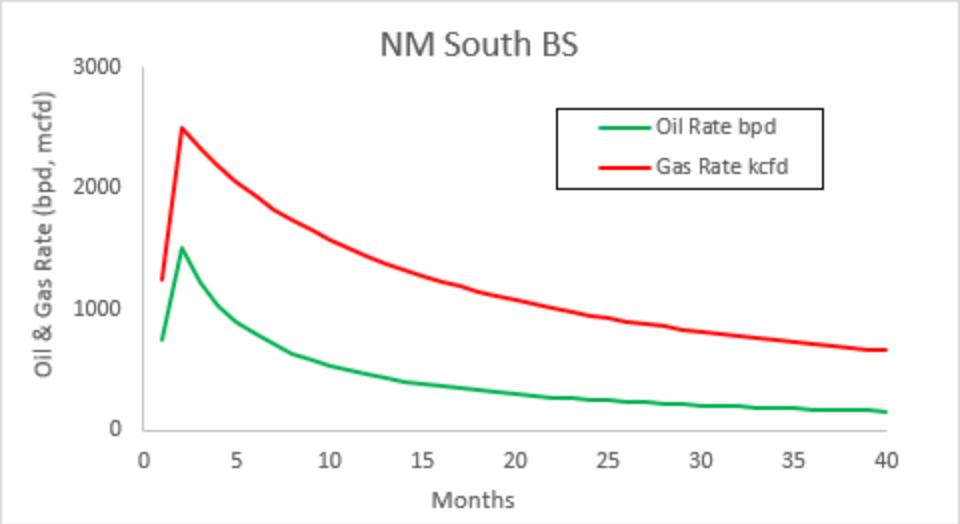
  - Designing and constructing facilities in a manner consistent to achieve maximum capture and control of hydrocarbon liquids & produced gas
  - Utilizing a closed-loop capture system to collect, and route produced gas to sales line via low pressure compression, or to a flare/combustor
  - Flaring in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

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

VIII. Best Management Practices during Maintenance

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


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


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

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

Drilling Plan Data Report
10/07/2024

APD ID: 10400094891
Submission Date: 09/29/2023
Operator Name: XTO PERMIAN OPERATING LLC
Well Name: POKER LAKE UNIT 30 BS
Well Number: 310H
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
13762801	QUATERNARY	3366	0	0	ALLUVIUM	USEABLE WATER	N
13762802	RUSTLER	2382	984	984	ANHYDRITE, SANDSTONE	USEABLE WATER	N
13762803	TOP SALT	2055	1311	1311	SALT	NONE	N
13762804	BASE OF SALT	-606	3972	3972	SALT	NONE	N
13762805	DELAWARE	-816	4182	4182	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
13762806	BONE SPRING	-4642	8008	8008	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y
13762807	BONE SPRING 1ST	-5594	8960	8960	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y
13762808	BONE SPRING 2ND	-6317	9683	9683	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M
Rating Depth: 9783

Equipment: Once the permanent WH is installed on the surface casing, the blow out preventer equipment (BOP) will consist of a 5M Hydril and a 5M Double Ram BOP. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M). Wellhead: Permanent Wellhead Multibowl System A. Starting Head: 20" 10M top flange x 9-5/8" SOW bottom B. Tubing Head: 11" 10M bottom flange x 7-1/16" 15M top flange

Requesting Variance? YES

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

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 30 BS **Well Number:** 310H

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. Based on discussions with the BLM on February 27th 2020, 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. When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.

Testing Procedure: All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nippling up on the surface casing, 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nippling up on the intermediate casing, the BOP will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

Choke Diagram Attachment:

PLU_30_BS_5MCM_20230926040012.pdf

BOP Diagram Attachment:

PLU_30_BS_5MBOP_20240613143847.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	1084	0	1084	3366	2282	1084	J-55	40	OTHER - BTC	5.24	1.56	DRY	14.53	DRY	14.53
2	INTERMEDIATE	8.75	7.625	NEW	API	Y	0	8900	0	8900	0	-5534	8900	L-80	29.7	OTHER - FLUSH JOINT	2.25	1.86	DRY	2.79	DRY	2.79
3	PRODUCTION	6.75	5.5	NEW	API	Y	0	23604	0	9783	0	-6417	23604	P-110	23	OTHER - SEMI-FLUSH	2.49	1.21	DRY	4.92	DRY	4.92

Casing Attachments

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 30 BS **Well Number:** 310H

Casing Attachments

Casing ID: 1 **String** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

PLU_30_BS_310H_Csg_20230927161906.pdf

Casing ID: 2 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

PLU_30_BS_310H_Csg_20230927172956.pdf

Casing Design Assumptions and Worksheet(s):

PLU_30_BS_310H_Csg_20230927162306.pdf

Casing ID: 3 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

PLU_30_BS_310H_Csg_20230927172741.pdf

Casing Design Assumptions and Worksheet(s):

PLU_30_BS_310H_Csg_20230927163015.pdf

Section 4 - Cement

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 30 BS **Well Number:** 310H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1084	240	1.87	12.9	462	100	EconoCem-HLTRRC	NA
SURFACE	Tail		0	1084	130	1.35	14.8	188	100	Class C	2% CaCl
INTERMEDIATE	Lead		0	8900	0	2.16	12.9	0	100	Class C	NA
INTERMEDIATE	Tail		0	8900	730	1.33	14.8	975	100	Class C	NA
PRODUCTION	Lead		0	23604	20	2.69	11.5	76	20	NeoCem	NA
PRODUCTION	Tail		0	23604	1030	1.51	13.2	1557	20	VersaCem	NA

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1084	4182	SALT SATURATED	10.5	11							

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 30 BS **Well Number:** 310H

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
8900	23604	OIL-BASED MUD	11.5	12							
0	1084	WATER-BASED MUD	8.7	9.2							
4182	8900	OTHER : BDE/OBM or FW/Brine	8.6	9.1							

Section 6 - Test, Logging, Coring

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

Mud Logger: Mud Logging Unit (2 man) below intermediate casing.
Open hole logging will not be done on this well.

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

GAMMA RAY LOG,DIRECTIONAL SURVEY,CEMENT BOND LOG,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: 5850 **Anticipated Surface Pressure:** 3697

Anticipated Bottom Hole Temperature(F): 175

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

PLU_30_BS_H2S_Plan_20240328144058.pdf
PLU_30_BS_H2S_DiaA_20240606093912.pdf
PLU_30_BS_H2S_DiaB_20240606093913.pdf
PLU_30_BS_H2S_DiaD_20240606093914.pdf

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 30 BS **Well Number:** 310H

PLU_30_BS_H2S_DiaC_20240606093915.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

PLU_30_BS_310H_DD_20230927165207.pdf

Other proposed operations facets description:

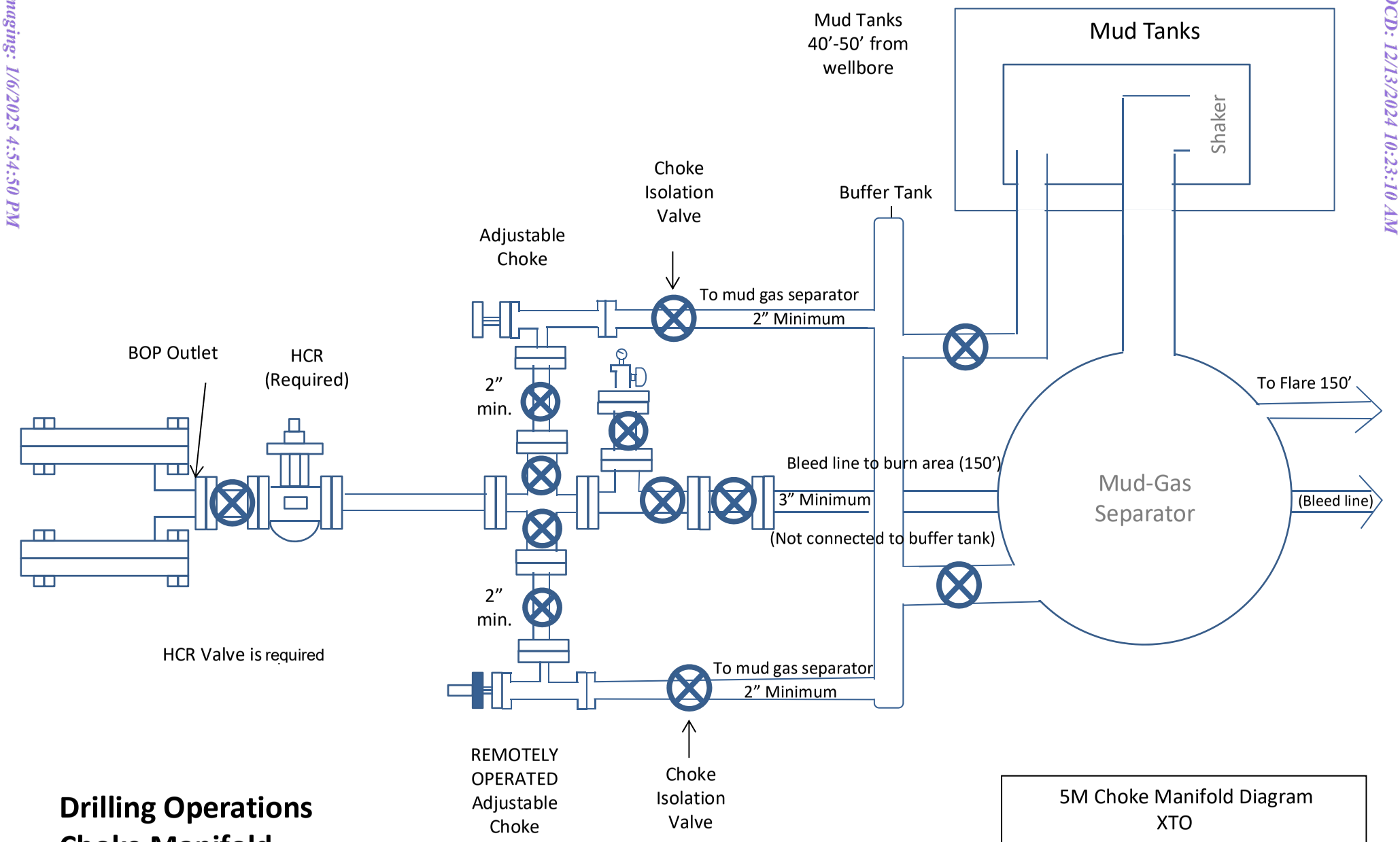
Other proposed operations facets attachment:

PLU_30_BS_310H_Cmt_20240328144356.pdf
PLU_30_BS_MBS_20240606093830.pdf

Other Variance attachment:

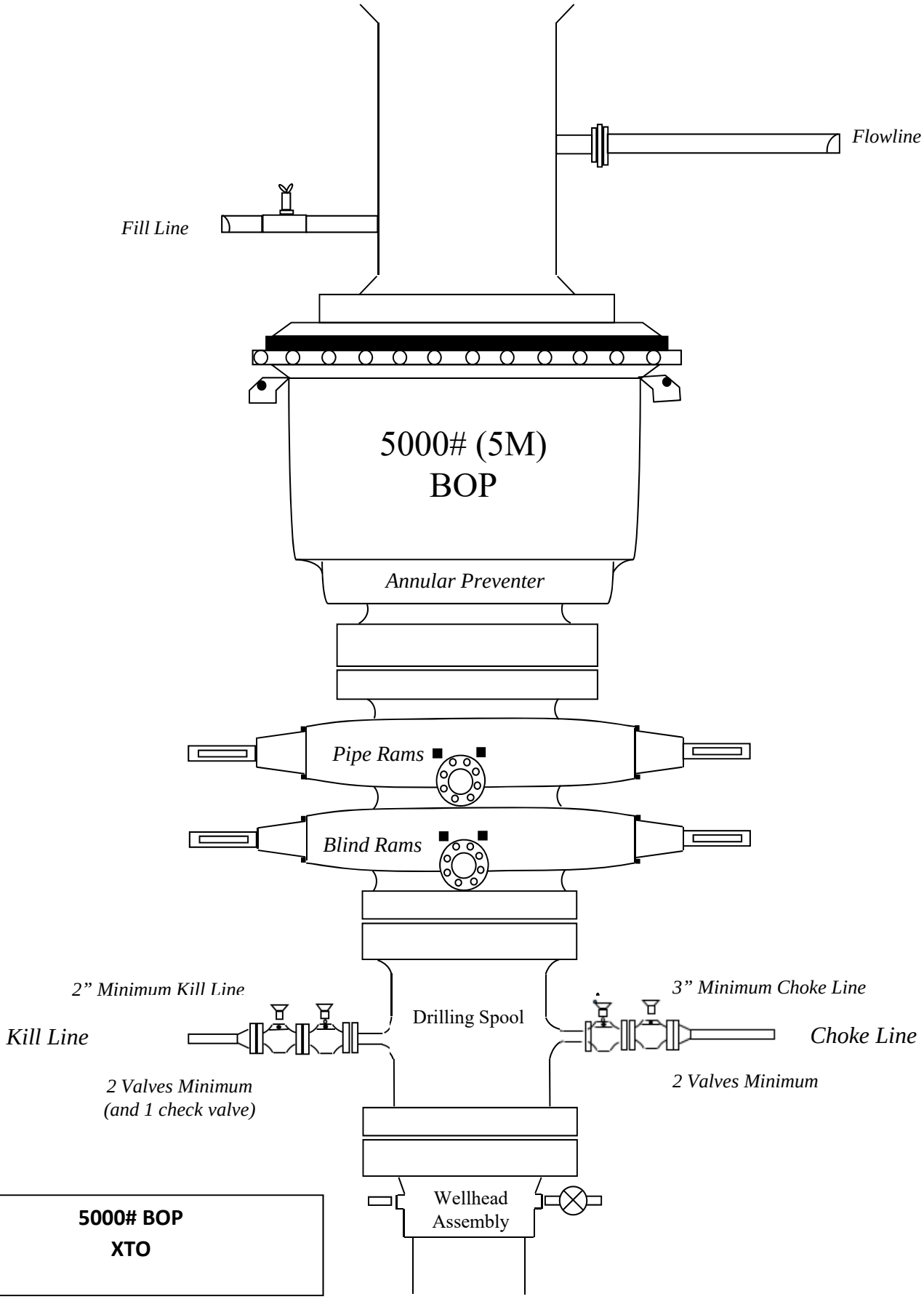
PLU_30_BS_FH_20230921042356.pdf
PLU_30_BS_OLCV_20230921042355.pdf
PLU_30_BS_Spud_20230921042355.pdf
PLU_30_BS_BOP_BTV_20240328144431.pdf

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



Drilling Operations
Choke Manifold
5M Service

5M Choke Manifold Diagram
XTO


Flowline
Fill Line
5000# (5M)
BOP
Annular Preventer
Pipe Rams
Blind Rams
2" Minimum Kill Line
3" Minimum Choke Line
Kill Line
Drilling Spool
Choke Line
2 Valves Minimum
(and 1 check valve)
2 Valves Minimum
Wellhead
Assembly

5000# BOP
XTO

Casing Assumptions

Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0’ – 1084'	9.625	40	J-55	BTC	New	1.56	5.24	14.53
8.75	0’ – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.56	2.65	2.11
8.75	4000' – 8900'	7.625	29.7	HC L-80	Flush Joint	New	1.86	2.25	2.79
6.75	0’ – 8800'	5.5	23	RY P-110	Semi-Premium	New	1.21	2.76	2.13
6.75	8800' - 9500'	5.5	23	RY P-110	Semi-Flush	New	1.21	2.56	4.35
6.75	9500' - 23604'	5.5	23	RY P-110	Semi-Flush	New	1.21	2.49	4.92

Cement □ariance Re□□est

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 (6514') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

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

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

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

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

Prod□ction Casing□

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

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

Description of Operations:

1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
    a. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
    b. The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
2. The wellhead will be installed and tested as soon as the surface casing is cut off and WOC time has been reached.
3. A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wing valves.
    a. A means for intervention will be maintained while the drilling rig is not over the well.
4. Spudder rig operations are expected to take 2-3 days per well on the pad.
5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
6. Drilling Operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nippled up and tested on the wellhead before drilling operations resume on each well.
    a. The larger rig will move back onto the location within 180 days from the point at which the wells are secured and the spudder rig is moved off location.
    b. The BLM will be notified 24 hours before the larger rig moves back on the pre-set locations
7. XTO will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
8. Once the rig is removed, XTO will secure the wellhead area by placing a guard rail around the cellar area.

XTO Permian Operating, LLC Offline Cementing Variance Request

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

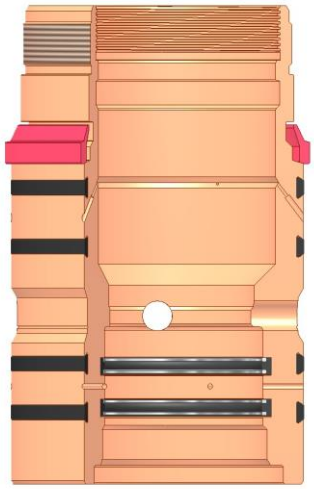
1. Cement Program

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

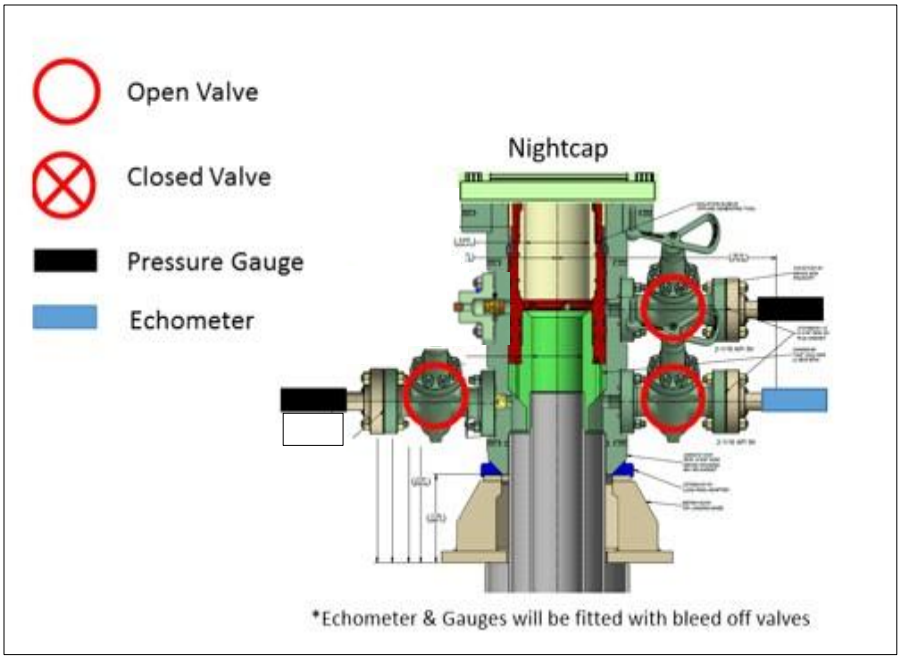
2. Offline Cementing Procedure

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

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



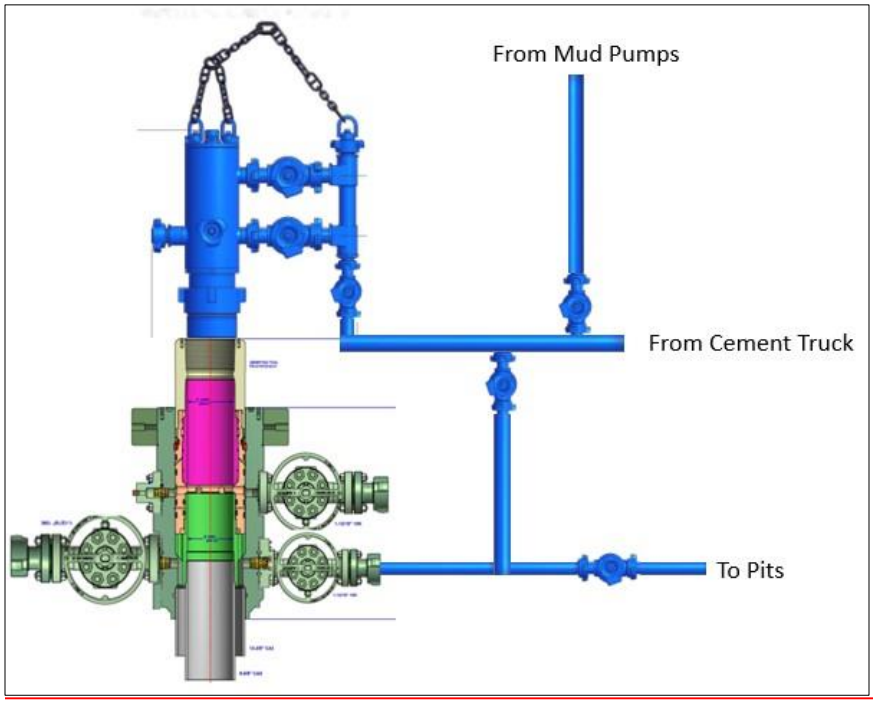
Annular packoff with both external and internal seals



Wellhead diagram during skidding operations

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

XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during offline cementing operations

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

GATES E & S NORTH AMERICA, INC
DU-TEX
134 44TH STREET
CORPUS CHRISTI, TEXAS 78405

PHONE: 361-887-9807
FAX: 361-887-0812
EMAIL: crpe&s@gates.com
WEB: www.gates.com

GRADE D PRESSURE TEST CERTIFICATE

Customer :	AUSTIN DISTRIBUTING	Test Date:	6/8/2014
Customer Ref. :	PENDING	Hose Serial No.:	D-060814-1
Invoice No. :	201709	Created By:	NORMA

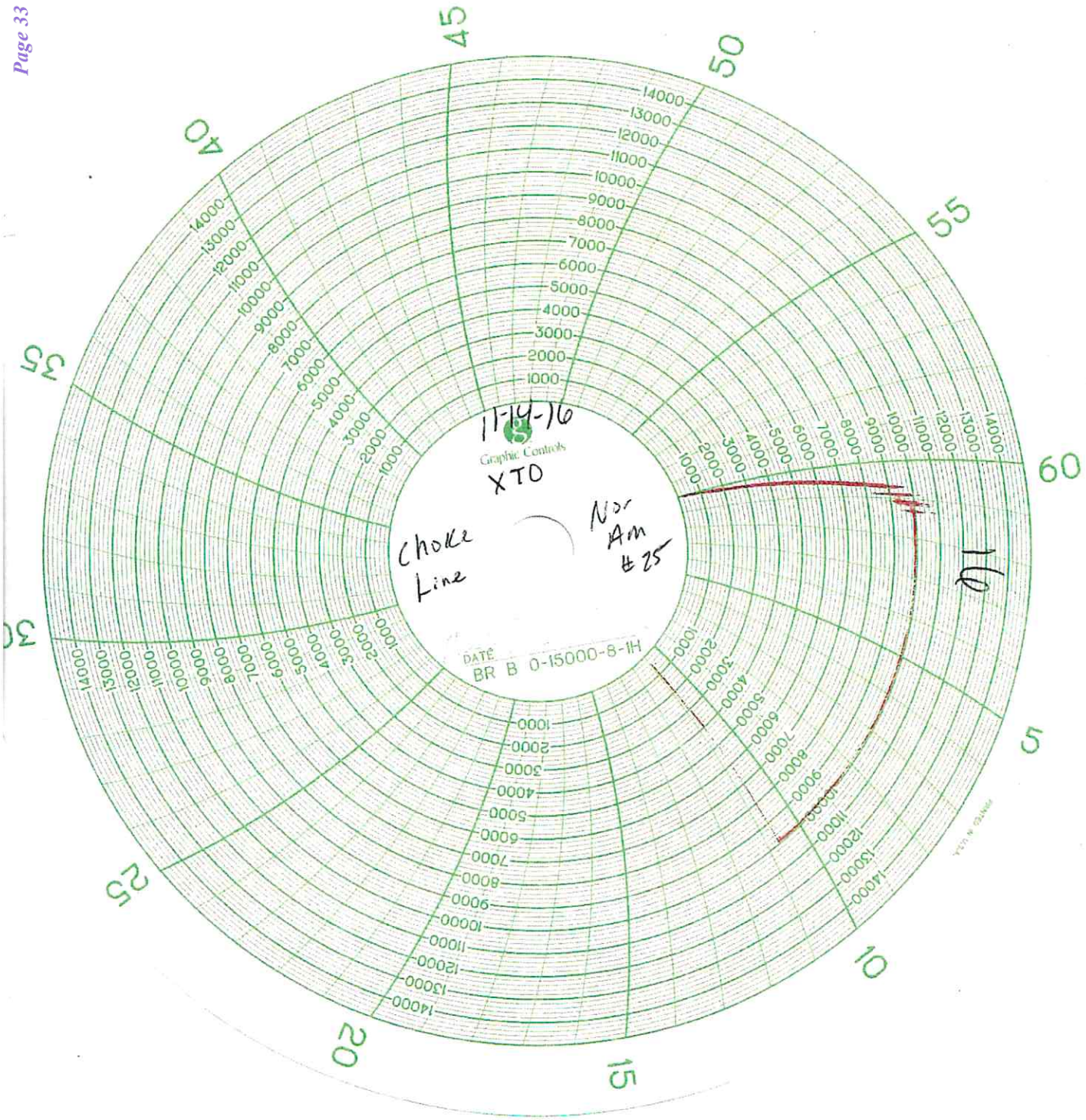
Product Description:	FD3.042.0R41/16.5KFLGE/E LE

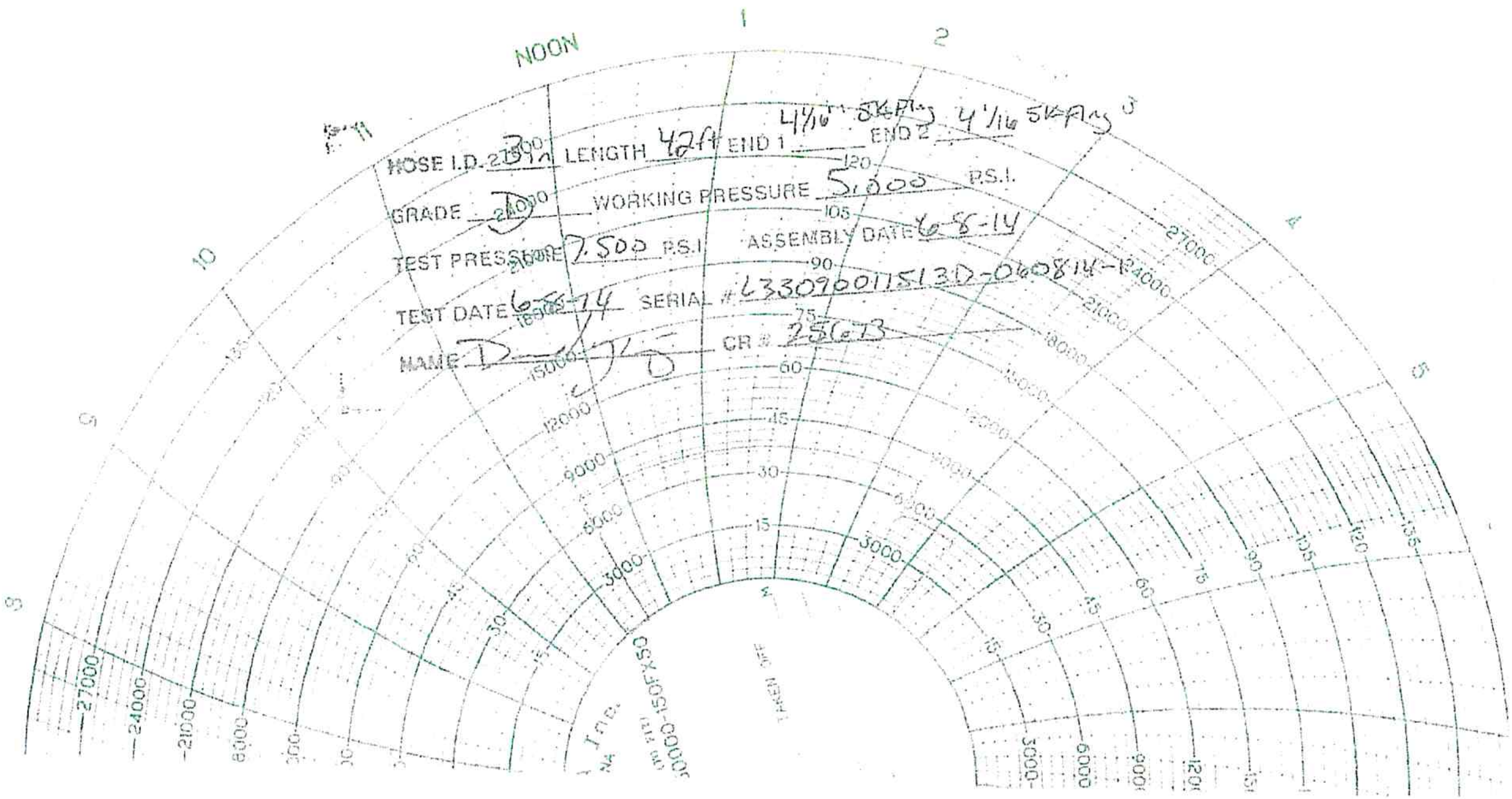
End Fitting 1 :	4 1/16 in.5K FLG	End Fitting 2 :	4 1/16 in.5K FLG
Gates Part No. :	4774-6001	Assembly Code :	L33090011513D-060814-1
Working Pressure :	5,000 PSI	Test Pressure :	7,500 PSI

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 7,500 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Quality:	QUALITY	Technical Supervisor :	PRODUCTION
Date :	6/8/2014	Date :	6/8/2014
Signature :		Signature :	

Form PTC - 01 Rev.0 2





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

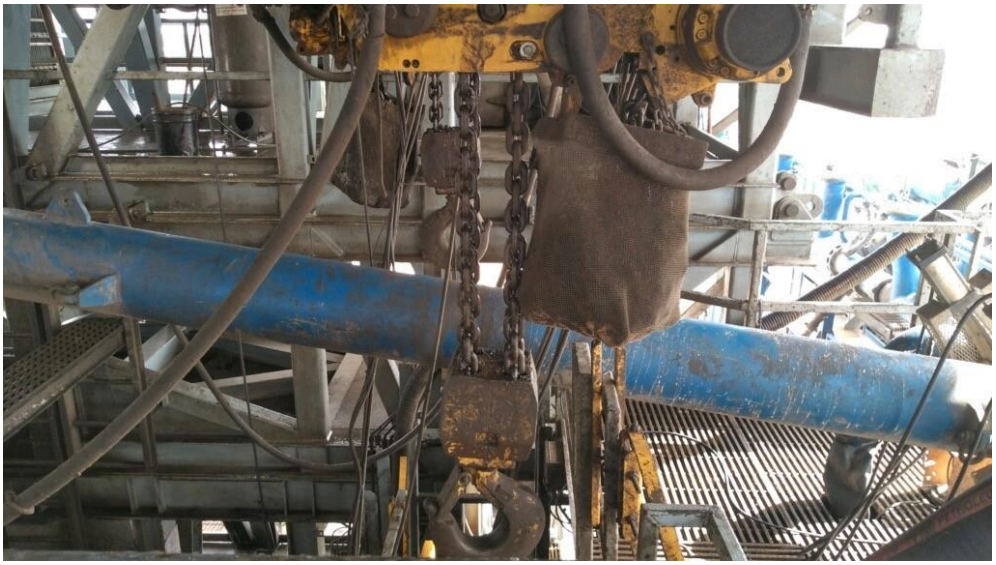


Figure 2: BOP Winch System

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.

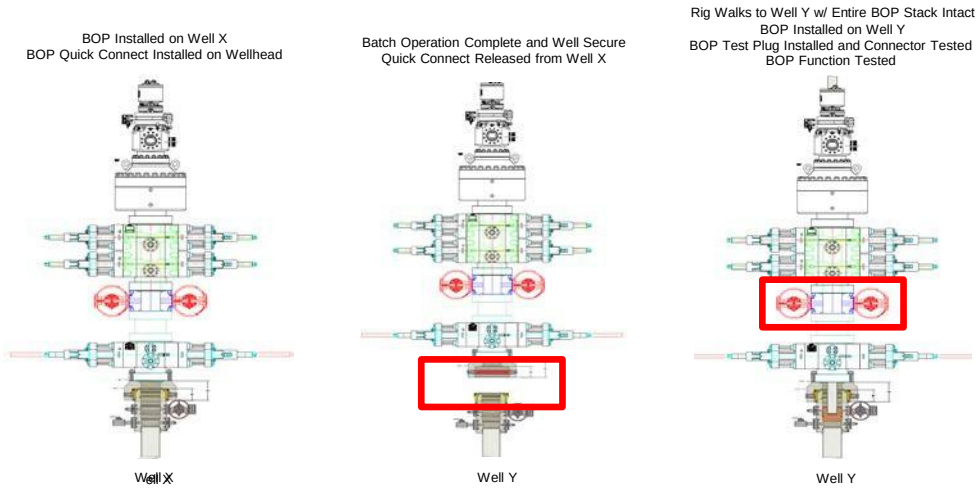
XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 0and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often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

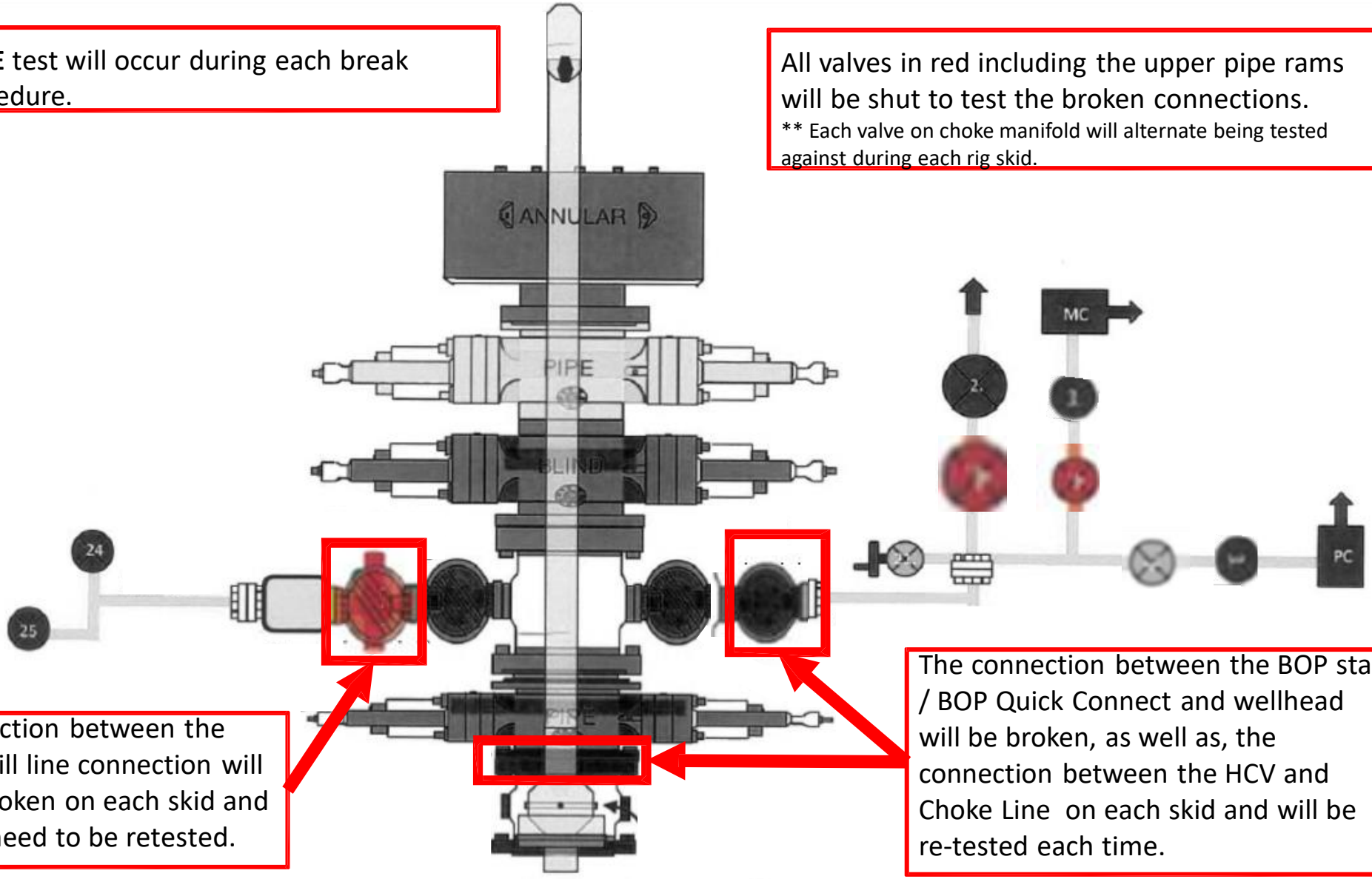
3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.

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

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

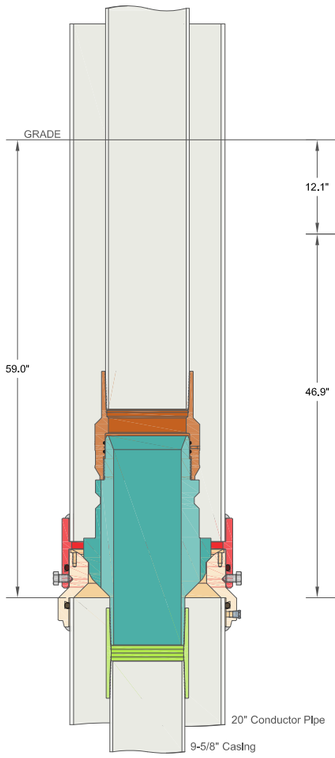
All valves in red including the upper pipe rams will be shut to test the broken connections.

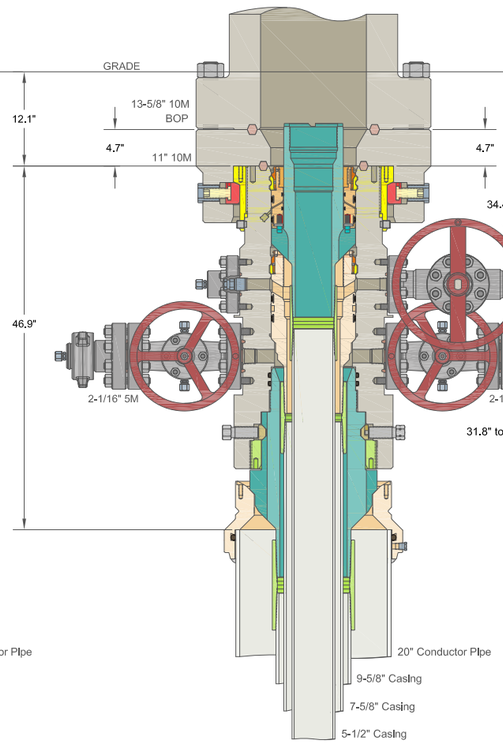
** Each valve on choke manifold will alternate being tested against during each rig skid.

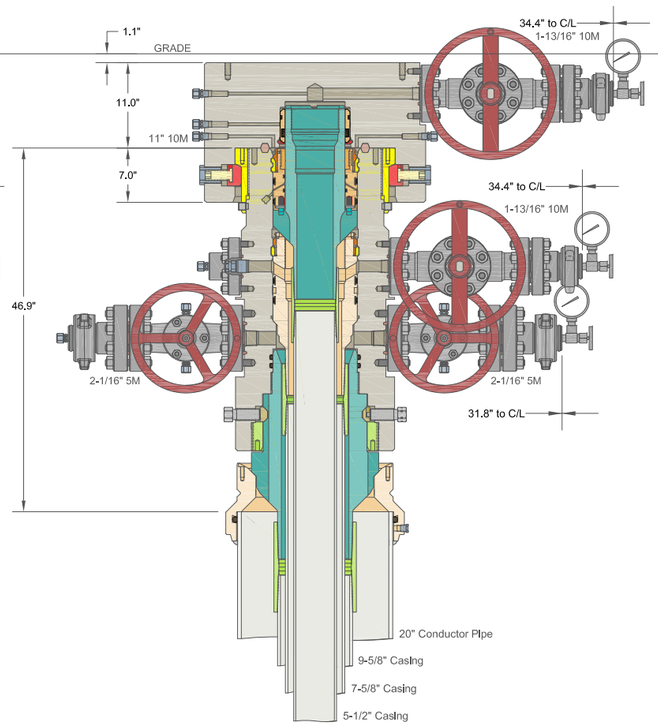


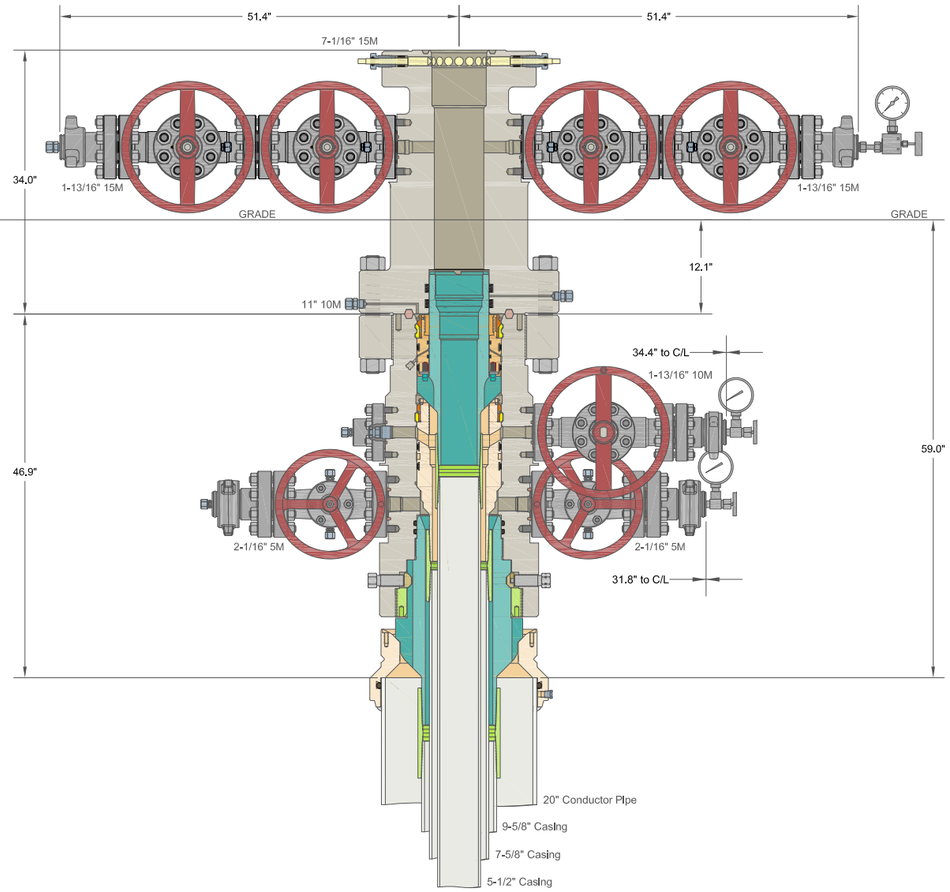
The connection between the HCV and kill line connection will **NOT** be broken on each skid and does not need to be retested.

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.









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	

XTO Energy

EDDY COUNTY, NM (NAD-27)
POKER LAKE UNIT 30 BS
310H

Wellbore #1

Plan: PERMIT

Standard Planning Report

26 June, 2023

XTO ENERGY

Project: EDDY COUNTY, NM (NAD-27)
Site: POKER LAKE UNIT 30 BS
Well: 310H
Wellbore: Wellbore #1
Design: PERMIT

PROJECT DETAILS: EDDY COUNTY, NM (NAD-27)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

WELL DETAILS: 310H

Rig Name: TBD
RKB = 30' @ 3396.00usft (TBD)
Ground Level: 3366.00

+N/-S	+E/-W	Northing	Easting	Latittude	Longitude
0.00	0.00	401115.60	660625.60	32.1017206	-103.8146070

SECTION DETAILS

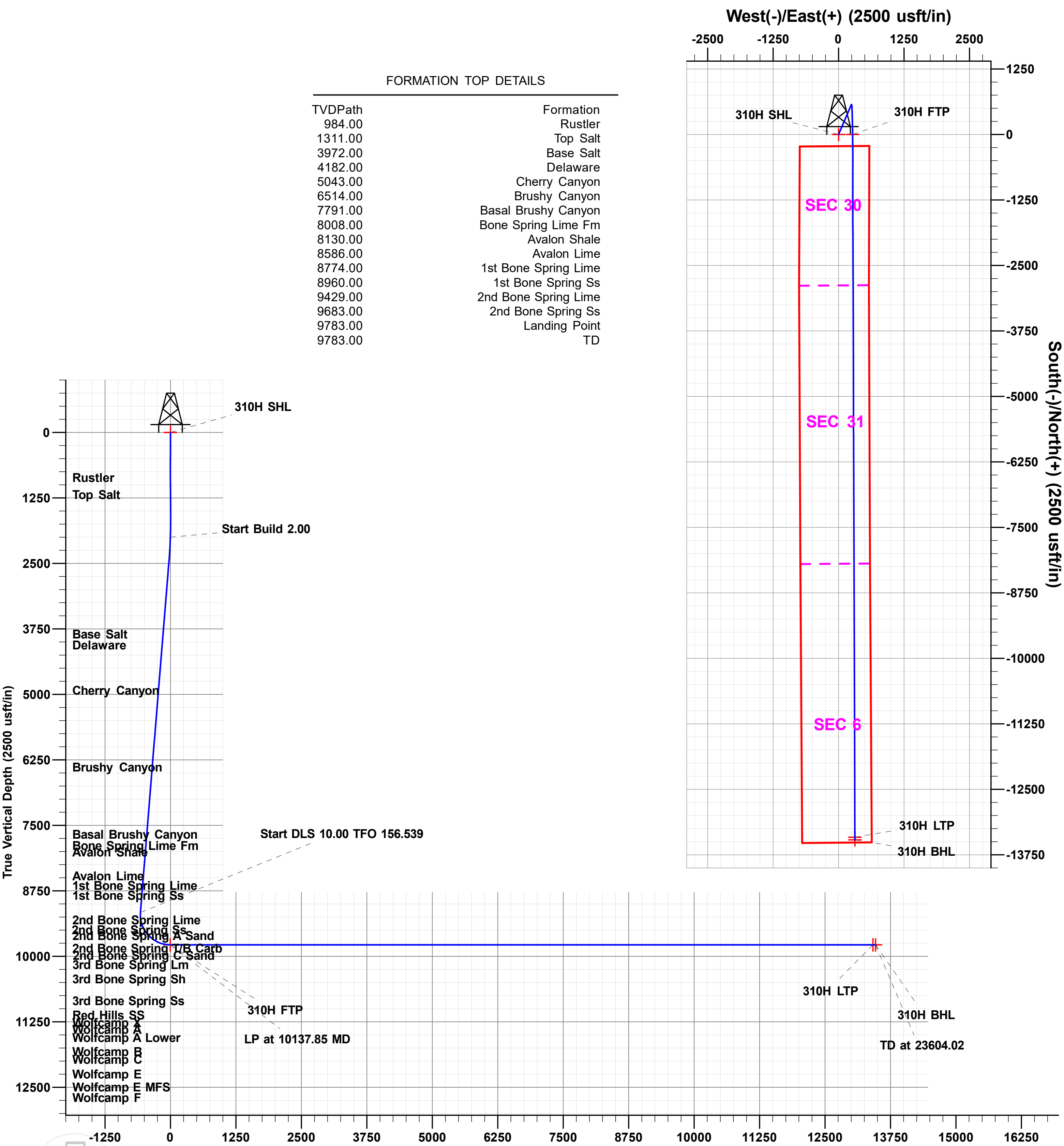
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
2	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.000	0.00	
3	2253.01	5.06	23.19	2252.68	10.26	4.40	2.00	23.193	-10.25	
4	9191.41	5.06	23.19	9164.04	572.78	245.42	0.00	0.000	-571.97	
5	10137.85	90.00	179.81	9783.00	1.78	269.02	10.00	156.539	-0.89	310H FTP
6	23554.00	90.00	179.81	9783.00	-13414.30	312.59	0.00	0.000	13415.26	310H LTP
7	23604.02	90.00	179.81	9783.00	-13464.32	312.75	0.00	0.000	13465.28	310H BHL

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
310H SHL	0.00	0.00	0.00	401115.60	660625.60	32.1017206	-103.8146070
310H BHL	9783.00	-13464.32	312.75	387651.28	660938.35	32.0647038	-103.8138064
310H FTP	9783.00	1.78	269.02	401117.38	660894.62	32.1017220	-103.8137382
310H LTP	9783.00	-13414.30	312.40	387701.30	660938.00	32.0648413	-103.8138068

FORMATION TOP DETAILS

TVDPath	Formation
984.00	Rustler
1311.00	Top Salt
3972.00	Base Salt
4182.00	Delaware
5043.00	Cherry Canyon
6514.00	Brushy Canyon
7791.00	Basal Brushy Canyon
8008.00	Bone Spring Lime Fm
8130.00	Avalon Shale
8586.00	Avalon Lime
8774.00	1st Bone Spring Lime
8960.00	1st Bone Spring Ss
9429.00	2nd Bone Spring Lime
9683.00	2nd Bone Spring Ss
9783.00	Landing Point
9783.00	TD



Vertical Section at 179.81° (2500 usft/in)

Plan: PERMIT (310H/Wellbore #1)

Created By: Matthew May Date: 10:57, June 26 2023

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-025		

[4] Property Code	[5] Property Name	[6] Well Number
	POKER LAKE UNIT 30 BS	310H

[7] OGRID No.	[8] Operator Name	[9] Elevation
373075	XTO PERMIAN OPERATING, LLC	3,366'

[10] Surface Location

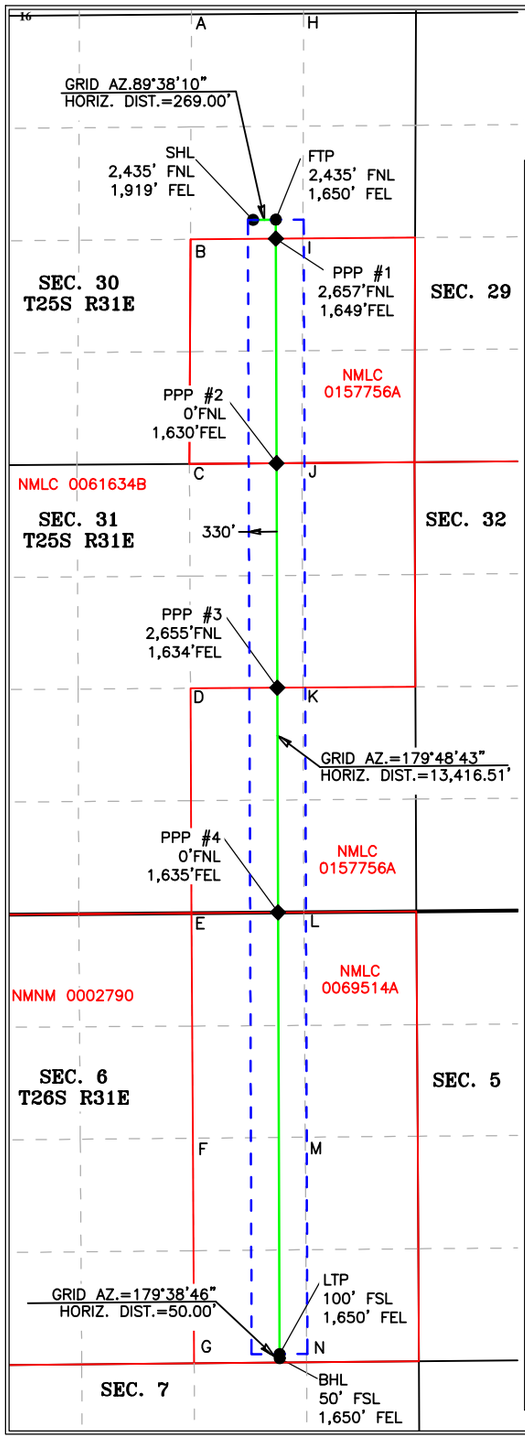
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	30	25S	31E		2,435	NORTH	1,919	EAST	EDDY

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	6	26S	31E		50	SOUTH	1,650	EAST	EDDY

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.

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.



LEGEND

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

SHL (NAD83 NME)		LTP (NAD83 NME)	
Y =	401,173.53	Y =	387,758.85
X =	701,811.18	X =	702,124.08
LAT. =	32.101845 °N	LAT. =	32.064966 °N
LONG. =	103.815086 °W	LONG. =	103.814284 °W
FTP (NAD83 NME)		**BHL (NAD83 NME)**	
Y =	401,175.29	Y =	387,708.85
X =	702,080.18	X =	702,124.39
LAT. =	32.101846 °N	LAT. =	32.064829 °N
LONG. =	103.814217 °W	LONG. =	103.814284 °W
PPP #1 (NAD83 NME)		**PPP #3 (NAD83 NME)**	
Y =	400,952.95	Y =	395,640.77
X =	702,080.91	X =	702,098.29
LAT. =	32.101235 °N	LAT. =	32.086633 °N
LONG. =	103.814218 °W	LONG. =	103.814245 °W
PPP #2 (NAD83 NME)		**PPP #4 (NAD83 NME)**	
Y =	398,295.7	Y =	392,983.0
X =	702,089.6	X =	702,107.0
LAT. =	32.093931 °N	LAT. =	32.079327 °N
LONG. =	103.814231 °W	LONG. =	103.814258 °W

CORNER COORDINATES (NAD83 NME)

A - Y =	403,603.82 N	X =	701,083.00 E
B - Y =	400,944.65 N	X =	701,070.69 E
C - Y =	398,287.96 N	X =	701,058.38 E
D - Y =	395,633.71 N	X =	701,071.07 E
E - Y =	392,974.74 N	X =	701,083.78 E
F - Y =	390,312.08 N	X =	701,099.41 E
G - Y =	387,649.18 N	X =	701,115.03 E
H - Y =	403,612.50 N	X =	702,410.39 E
I - Y =	400,955.57 N	X =	702,400.12 E
J - Y =	398,297.97 N	X =	702,389.06 E
K - Y =	395,642.85 N	X =	702,401.53 E
L - Y =	392,985.49 N	X =	702,412.89 E
M - Y =	390,323.89 N	X =	702,428.80 E
N - Y =	387,661.92 N	X =	702,444.83 E

SHL (NAD27 NME)		LTP (NAD27 NME)	
Y =	401,115.6	Y =	387,701.3
X =	660,625.6	X =	660,938.0
LAT. =	32.101721 °N	LAT. =	32.064841 °N
LONG. =	103.814607 °W	LONG. =	103.813807 °W
FTP (NAD27 NME)		**BHL (NAD27 NME)**	
Y =	401,117.38	Y =	387,651.28
X =	660,894.62	X =	660,938.35
LAT. =	32.101722 °N	LAT. =	32.064704 °N
LONG. =	103.813738 °W	LONG. =	103.813806 °W
PPP #1 (NAD27 NME)		**PPP #3 (NAD27 NME)**	
Y =	400,895.04	Y =	395,583.00
X =	660,895.34	X =	660,912.53
LAT. =	32.101111 °N	LAT. =	32.086508 °N
LONG. =	103.813739 °W	LONG. =	103.813766 °W
PPP #2 (NAD27 NME)		**PPP #4 (NAD27 NME)**	
Y =	398,237.87	Y =	392,925.31
X =	660,903.93	X =	660,921.13
LAT. =	32.093806 °N	LAT. =	32.079202 °N
LONG. =	103.813753 °W	LONG. =	103.813780 °W

CORNER COORDINATES (NAD27 NME)

A - Y =	403,545.84 N	X =	659,897.54 E
B - Y =	400,886.74 N	X =	659,885.13 E
C - Y =	398,230.11 N	X =	659,872.73 E
D - Y =	395,575.93 N	X =	659,885.33 E
E - Y =	392,917.03 N	X =	659,897.94 E
F - Y =	390,254.44 N	X =	659,913.47 E
G - Y =	387,591.60 N	X =	659,929.01 E
H - Y =	403,554.53 N	X =	661,224.91 E
I - Y =	400,897.67 N	X =	661,214.53 E
J - Y =	398,240.13 N	X =	661,203.38 E
K - Y =	395,585.08 N	X =	661,215.76 E
L - Y =	392,927.79 N	X =	661,227.03 E
M - Y =	390,266.26 N	X =	661,242.84 E
N - Y =	387,604.35 N	X =	661,258.78 E

[17] OPERATOR CERTIFICATION

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.

Signature Date

Printed Name

E-mail Address

[18] SURVEYOR CERTIFICATION

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.

04-16-2023
Date of Survey

PRELIMINARY, THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSE AND SHALL NOT BE USED OR VIEWED OR RELIED UPON AS A FINAL SURVEY DOCUMENT

LM 2023040190

Signatue and Seal of Professional Surveyor:

TIM C. PAPPAS 21209
Certificate Number

XTO ENERGY

Planning Report

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well 310H
Company:	XTO Energy	**TVD Reference:**	RKB = 30' @ 3396.00usft (TBD)
Project:	EDDY COUNTY, NM (NAD-27)	**MD Reference:**	RKB = 30' @ 3396.00usft (TBD)
Site:	POKER LAKE UNIT 30 BS	**North Reference:**	Grid
Well:	310H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Project EDDY COUNTY, NM (NAD-27)

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 30 BS

Site Position:		**Northing:**	401,221.20 usft	**Latitude:**	32.1020486
From:	Map	**Easting:**	657,754.30 usft	**Longitude:**	-103.8238776
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.271 °

Well 310H

Well Position	**+N/-S**	-105.60 usft	**Northing:**	401,115.60 usft	**Latitude:**	32.1017207
	+E/-W	2,871.30 usft	**Easting:**	660,625.60 usft	**Longitude:**	-103.8146070
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	0.00 usft	**Ground Level:**	3,366.00 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	06/26/23	6.410	59.685	47,185

Design PERMIT

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	179.81

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,253.01	5.06	23.19	2,252.68	10.26	4.40	2.00	2.00	0.00	23.193	
9,191.41	5.06	23.19	9,164.04	572.78	245.42	0.00	0.00	0.00	0.000	
10,137.85	90.00	179.81	9,783.00	1.78	269.02	10.00	8.97	16.55	156.539	310H FTP
23,554.00	90.00	179.81	9,783.00	-13,414.30	312.59	0.00	0.00	0.00	0.000	310H LTP
23,604.02	90.00	179.81	9,783.00	-13,464.32	312.75	0.00	0.00	0.00	0.000	310H BHL

XTO ENERGY

Planning Report

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Project:	EDDY COUNTY, NM (NAD-27)	**MD Reference:**	RKB = 30' @ 3396.00usft (TBD)
Site:	POKER LAKE UNIT 30 BS	**North Reference:**	Grid
Well:	310H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
310H SHL									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
984.00	0.00	0.00	984.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,311.00	0.00	0.00	1,311.00	0.00	0.00	0.00	0.00	0.00	0.00
Top Salt									
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	2.00	23.19	2,099.98	1.60	0.69	-1.60	2.00	2.00	0.00
2,200.00	4.00	23.19	2,199.84	6.41	2.75	-6.41	2.00	2.00	0.00
2,253.01	5.06	23.19	2,252.68	10.26	4.40	-10.25	2.00	2.00	0.00
2,300.00	5.06	23.19	2,299.49	14.07	6.03	-14.05	0.00	0.00	0.00
2,400.00	5.06	23.19	2,399.10	22.18	9.50	-22.15	0.00	0.00	0.00
2,500.00	5.06	23.19	2,498.71	30.29	12.98	-30.24	0.00	0.00	0.00
2,600.00	5.06	23.19	2,598.32	38.39	16.45	-38.34	0.00	0.00	0.00
2,700.00	5.06	23.19	2,697.93	46.50	19.92	-46.44	0.00	0.00	0.00
2,800.00	5.06	23.19	2,797.54	54.61	23.40	-54.53	0.00	0.00	0.00
2,900.00	5.06	23.19	2,897.15	62.72	26.87	-62.63	0.00	0.00	0.00
3,000.00	5.06	23.19	2,996.76	70.82	30.35	-70.72	0.00	0.00	0.00
3,100.00	5.06	23.19	3,096.37	78.93	33.82	-78.82	0.00	0.00	0.00
3,200.00	5.06	23.19	3,195.98	87.04	37.29	-86.91	0.00	0.00	0.00
3,300.00	5.06	23.19	3,295.59	95.15	40.77	-95.01	0.00	0.00	0.00
3,400.00	5.06	23.19	3,395.20	103.25	44.24	-103.11	0.00	0.00	0.00
3,500.00	5.06	23.19	3,494.81	111.36	47.71	-111.20	0.00	0.00	0.00
3,600.00	5.06	23.19	3,594.42	119.47	51.19	-119.30	0.00	0.00	0.00
3,700.00	5.06	23.19	3,694.03	127.58	54.66	-127.39	0.00	0.00	0.00
3,800.00	5.06	23.19	3,793.64	135.68	58.14	-135.49	0.00	0.00	0.00
3,900.00	5.06	23.19	3,893.25	143.79	61.61	-143.59	0.00	0.00	0.00
3,979.06	5.06	23.19	3,972.00	150.20	64.36	-149.99	0.00	0.00	0.00
Base Salt									
4,000.00	5.06	23.19	3,992.86	151.90	65.08	-151.68	0.00	0.00	0.00
4,100.00	5.06	23.19	4,092.47	160.00	68.56	-159.78	0.00	0.00	0.00
4,189.88	5.06	23.19	4,182.00	167.29	71.68	-167.05	0.00	0.00	0.00
Delaware									
4,200.00	5.06	23.19	4,192.08	168.11	72.03	-167.87	0.00	0.00	0.00
4,300.00	5.06	23.19	4,291.69	176.22	75.50	-175.97	0.00	0.00	0.00

XTO ENERGY

Planning Report

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Project:	EDDY COUNTY, NM (NAD-27)	**MD Reference:**	RKB = 30' @ 3396.00usft (TBD)
Site:	POKER LAKE UNIT 30 BS	**North Reference:**	Grid
Well:	310H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

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)
4,400.00	5.06	23.19	4,391.30	184.33	78.98	-184.06	0.00	0.00	0.00
4,500.00	5.06	23.19	4,490.91	192.43	82.45	-192.16	0.00	0.00	0.00
4,600.00	5.06	23.19	4,590.52	200.54	85.92	-200.26	0.00	0.00	0.00
4,700.00	5.06	23.19	4,690.13	208.65	89.40	-208.35	0.00	0.00	0.00
4,800.00	5.06	23.19	4,789.74	216.76	92.87	-216.45	0.00	0.00	0.00
4,900.00	5.06	23.19	4,889.35	224.86	96.35	-224.54	0.00	0.00	0.00
5,000.00	5.06	23.19	4,988.97	232.97	99.82	-232.64	0.00	0.00	0.00
5,054.25	5.06	23.19	5,043.00	237.37	101.70	-237.03	0.00	0.00	0.00
Cherry Canyon									
5,100.00	5.06	23.19	5,088.58	241.08	103.29	-240.73	0.00	0.00	0.00
5,200.00	5.06	23.19	5,188.19	249.19	106.77	-248.83	0.00	0.00	0.00
5,300.00	5.06	23.19	5,287.80	257.29	110.24	-256.93	0.00	0.00	0.00
5,400.00	5.06	23.19	5,387.41	265.40	113.71	-265.02	0.00	0.00	0.00
5,500.00	5.06	23.19	5,487.02	273.51	117.19	-273.12	0.00	0.00	0.00
5,600.00	5.06	23.19	5,586.63	281.62	120.66	-281.21	0.00	0.00	0.00
5,700.00	5.06	23.19	5,686.24	289.72	124.14	-289.31	0.00	0.00	0.00
5,800.00	5.06	23.19	5,785.85	297.83	127.61	-297.41	0.00	0.00	0.00
5,900.00	5.06	23.19	5,885.46	305.94	131.08	-305.50	0.00	0.00	0.00
6,000.00	5.06	23.19	5,985.07	314.04	134.56	-313.60	0.00	0.00	0.00
6,100.00	5.06	23.19	6,084.68	322.15	138.03	-321.69	0.00	0.00	0.00
6,200.00	5.06	23.19	6,184.29	330.26	141.50	-329.79	0.00	0.00	0.00
6,300.00	5.06	23.19	6,283.90	338.37	144.98	-337.88	0.00	0.00	0.00
6,400.00	5.06	23.19	6,383.51	346.47	148.45	-345.98	0.00	0.00	0.00
6,500.00	5.06	23.19	6,483.12	354.58	151.93	-354.08	0.00	0.00	0.00
6,531.00	5.06	23.19	6,514.00	357.09	153.00	-356.59	0.00	0.00	0.00
Brushy Canyon									
6,600.00	5.06	23.19	6,582.73	362.69	155.40	-362.17	0.00	0.00	0.00
6,700.00	5.06	23.19	6,682.34	370.80	158.87	-370.27	0.00	0.00	0.00
6,800.00	5.06	23.19	6,781.95	378.90	162.35	-378.36	0.00	0.00	0.00
6,900.00	5.06	23.19	6,881.56	387.01	165.82	-386.46	0.00	0.00	0.00
7,000.00	5.06	23.19	6,981.17	395.12	169.29	-394.55	0.00	0.00	0.00
7,100.00	5.06	23.19	7,080.78	403.23	172.77	-402.65	0.00	0.00	0.00
7,200.00	5.06	23.19	7,180.39	411.33	176.24	-410.75	0.00	0.00	0.00
7,300.00	5.06	23.19	7,280.00	419.44	179.72	-418.84	0.00	0.00	0.00
7,400.00	5.06	23.19	7,379.61	427.55	183.19	-426.94	0.00	0.00	0.00
7,500.00	5.06	23.19	7,479.22	435.65	186.66	-435.03	0.00	0.00	0.00
7,600.00	5.06	23.19	7,578.83	443.76	190.14	-443.13	0.00	0.00	0.00
7,700.00	5.06	23.19	7,678.44	451.87	193.61	-451.23	0.00	0.00	0.00
7,800.00	5.06	23.19	7,778.05	459.98	197.08	-459.32	0.00	0.00	0.00
7,813.00	5.06	23.19	7,791.00	461.03	197.54	-460.37	0.00	0.00	0.00
Basal Brushy Canyon									
7,900.00	5.06	23.19	7,877.66	468.08	200.56	-467.42	0.00	0.00	0.00
8,000.00	5.06	23.19	7,977.27	476.19	204.03	-475.51	0.00	0.00	0.00
8,030.85	5.06	23.19	8,008.00	478.69	205.10	-478.01	0.00	0.00	0.00
Bone Spring Lime Fm									
8,100.00	5.06	23.19	8,076.88	484.30	207.50	-483.61	0.00	0.00	0.00
8,153.32	5.06	23.19	8,130.00	488.62	209.36	-487.93	0.00	0.00	0.00
Avalon Shale									
8,200.00	5.06	23.19	8,176.49	492.41	210.98	-491.70	0.00	0.00	0.00
8,300.00	5.06	23.19	8,276.10	500.51	214.45	-499.80	0.00	0.00	0.00
8,400.00	5.06	23.19	8,375.71	508.62	217.93	-507.90	0.00	0.00	0.00
8,500.00	5.06	23.19	8,475.32	516.73	221.40	-515.99	0.00	0.00	0.00
8,600.00	5.06	23.19	8,574.93	524.84	224.87	-524.09	0.00	0.00	0.00

XTO ENERGY

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Well:	310H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

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)
8,611.11	5.06	23.19	8,586.00	525.74	225.26	-524.99	0.00	0.00	0.00
Avalon Lime									
8,700.00	5.06	23.19	8,674.55	532.94	228.35	-532.18	0.00	0.00	0.00
8,799.84	5.06	23.19	8,774.00	541.04	231.82	-540.27	0.00	0.00	0.00
1st Bone Spring Lime									
8,800.00	5.06	23.19	8,774.16	541.05	231.82	-540.28	0.00	0.00	0.00
8,900.00	5.06	23.19	8,873.77	549.16	235.29	-548.37	0.00	0.00	0.00
8,986.57	5.06	23.19	8,960.00	556.18	238.30	-555.38	0.00	0.00	0.00
1st Bone Spring Ss									
9,000.00	5.06	23.19	8,973.38	557.27	238.77	-556.47	0.00	0.00	0.00
9,100.00	5.06	23.19	9,072.99	565.37	242.24	-564.57	0.00	0.00	0.00
9,191.41	5.06	23.19	9,164.04	572.78	245.42	-571.97	0.00	0.00	0.00
9,200.00	4.29	27.78	9,172.60	573.42	245.72	-572.60	10.00	-9.01	53.33
9,250.00	2.35	120.95	9,222.54	574.54	247.47	-573.72	10.00	-3.87	186.36
9,300.00	6.53	161.94	9,272.39	571.31	249.23	-570.48	10.00	8.36	81.98
9,350.00	11.39	169.77	9,321.77	563.74	250.99	-562.90	10.00	9.72	15.66
9,400.00	16.34	172.93	9,370.30	551.89	252.73	-551.05	10.00	9.89	6.32
9,450.00	21.31	174.64	9,417.61	535.86	254.45	-535.02	10.00	9.94	3.43
9,462.28	22.53	174.95	9,429.00	531.30	254.86	-530.45	10.00	9.96	2.52
2nd Bone Spring Lime									
9,500.00	26.29	175.73	9,463.34	515.76	256.12	-514.91	10.00	9.96	2.07
9,550.00	31.27	176.50	9,507.15	491.75	257.74	-490.90	10.00	9.97	1.53
9,600.00	36.26	177.07	9,548.70	464.01	259.29	-463.15	10.00	9.98	1.14
9,650.00	41.26	177.52	9,587.68	432.76	260.76	-431.89	10.00	9.98	0.90
9,700.00	46.25	177.89	9,623.79	398.22	262.14	-397.35	10.00	9.99	0.74
9,750.00	51.24	178.20	9,656.74	360.66	263.42	-359.79	10.00	9.99	0.62
9,794.10	55.65	178.44	9,683.00	325.26	264.46	-324.38	10.00	9.99	0.54
2nd Bone Spring Ss									
9,800.00	56.24	178.47	9,686.31	320.37	264.59	-319.49	10.00	9.99	0.51
9,850.00	61.23	178.71	9,712.25	277.66	265.64	-276.78	10.00	9.99	0.48
9,900.00	66.23	178.93	9,734.37	232.85	266.56	-231.96	10.00	9.99	0.44
9,950.00	71.23	179.13	9,752.50	186.27	267.35	-185.39	10.00	9.99	0.40
10,000.00	76.22	179.32	9,766.51	138.30	268.00	-137.41	10.00	9.99	0.38
10,050.00	81.22	179.50	9,776.28	89.28	268.50	-88.39	10.00	9.99	0.37
10,100.00	86.22	179.68	9,781.75	39.60	268.85	-38.71	10.00	9.99	0.36
10,137.85	90.00	179.81	9,783.00	1.78	269.02	-0.89	10.00	9.99	0.35
TD - Landing Point - 310H FTP									
10,200.00	90.00	179.81	9,783.00	-60.37	269.22	61.27	0.00	0.00	0.00
10,300.00	90.00	179.81	9,783.00	-160.37	269.55	161.27	0.00	0.00	0.00
10,400.00	90.00	179.81	9,783.00	-260.37	269.87	261.27	0.00	0.00	0.00
10,500.00	90.00	179.81	9,783.00	-360.37	270.20	361.27	0.00	0.00	0.00
10,600.00	90.00	179.81	9,783.00	-460.37	270.52	461.27	0.00	0.00	0.00
10,700.00	90.00	179.81	9,783.00	-560.37	270.85	561.27	0.00	0.00	0.00
10,800.00	90.00	179.81	9,783.00	-660.37	271.17	661.27	0.00	0.00	0.00
10,900.00	90.00	179.81	9,783.00	-760.37	271.50	761.27	0.00	0.00	0.00
11,000.00	90.00	179.81	9,783.00	-860.37	271.82	861.27	0.00	0.00	0.00
11,100.00	90.00	179.81	9,783.00	-960.37	272.14	961.27	0.00	0.00	0.00
11,200.00	90.00	179.81	9,783.00	-1,060.37	272.47	1,061.27	0.00	0.00	0.00
11,300.00	90.00	179.81	9,783.00	-1,160.37	272.79	1,161.27	0.00	0.00	0.00
11,400.00	90.00	179.81	9,783.00	-1,260.37	273.12	1,261.27	0.00	0.00	0.00
11,500.00	90.00	179.81	9,783.00	-1,360.37	273.44	1,361.27	0.00	0.00	0.00
11,600.00	90.00	179.81	9,783.00	-1,460.37	273.77	1,461.27	0.00	0.00	0.00
11,700.00	90.00	179.81	9,783.00	-1,560.37	274.09	1,561.27	0.00	0.00	0.00

XTO ENERGY

Planning Report

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well 310H
Company:	XTO Energy	**TVD Reference:**	RKB = 30' @ 3396.00usft (TBD)
Project:	EDDY COUNTY, NM (NAD-27)	**MD Reference:**	RKB = 30' @ 3396.00usft (TBD)
Site:	POKER LAKE UNIT 30 BS	**North Reference:**	Grid
Well:	310H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

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)
11,800.00	90.00	179.81	9,783.00	-1,660.37	274.42	1,661.27	0.00	0.00	0.00
11,900.00	90.00	179.81	9,783.00	-1,760.37	274.74	1,761.27	0.00	0.00	0.00
12,000.00	90.00	179.81	9,783.00	-1,860.36	275.07	1,861.27	0.00	0.00	0.00
12,100.00	90.00	179.81	9,783.00	-1,960.36	275.39	1,961.27	0.00	0.00	0.00
12,200.00	90.00	179.81	9,783.00	-2,060.36	275.72	2,061.27	0.00	0.00	0.00
12,300.00	90.00	179.81	9,783.00	-2,160.36	276.04	2,161.27	0.00	0.00	0.00
12,400.00	90.00	179.81	9,783.00	-2,260.36	276.37	2,261.27	0.00	0.00	0.00
12,500.00	90.00	179.81	9,783.00	-2,360.36	276.69	2,361.27	0.00	0.00	0.00
12,600.00	90.00	179.81	9,783.00	-2,460.36	277.02	2,461.27	0.00	0.00	0.00
12,700.00	90.00	179.81	9,783.00	-2,560.36	277.34	2,561.27	0.00	0.00	0.00
12,800.00	90.00	179.81	9,783.00	-2,660.36	277.67	2,661.27	0.00	0.00	0.00
12,900.00	90.00	179.81	9,783.00	-2,760.36	277.99	2,761.27	0.00	0.00	0.00
13,000.00	90.00	179.81	9,783.00	-2,860.36	278.31	2,861.27	0.00	0.00	0.00
13,100.00	90.00	179.81	9,783.00	-2,960.36	278.64	2,961.27	0.00	0.00	0.00
13,200.00	90.00	179.81	9,783.00	-3,060.36	278.96	3,061.27	0.00	0.00	0.00
13,300.00	90.00	179.81	9,783.00	-3,160.36	279.29	3,161.27	0.00	0.00	0.00
13,400.00	90.00	179.81	9,783.00	-3,260.36	279.61	3,261.27	0.00	0.00	0.00
13,500.00	90.00	179.81	9,783.00	-3,360.36	279.94	3,361.27	0.00	0.00	0.00
13,600.00	90.00	179.81	9,783.00	-3,460.36	280.26	3,461.27	0.00	0.00	0.00
13,700.00	90.00	179.81	9,783.00	-3,560.36	280.59	3,561.27	0.00	0.00	0.00
13,800.00	90.00	179.81	9,783.00	-3,660.36	280.91	3,661.27	0.00	0.00	0.00
13,900.00	90.00	179.81	9,783.00	-3,760.35	281.24	3,761.27	0.00	0.00	0.00
14,000.00	90.00	179.81	9,783.00	-3,860.35	281.56	3,861.27	0.00	0.00	0.00
14,100.00	90.00	179.81	9,783.00	-3,960.35	281.89	3,961.27	0.00	0.00	0.00
14,200.00	90.00	179.81	9,783.00	-4,060.35	282.21	4,061.27	0.00	0.00	0.00
14,300.00	90.00	179.81	9,783.00	-4,160.35	282.54	4,161.27	0.00	0.00	0.00
14,400.00	90.00	179.81	9,783.00	-4,260.35	282.86	4,261.27	0.00	0.00	0.00
14,500.00	90.00	179.81	9,783.00	-4,360.35	283.19	4,361.27	0.00	0.00	0.00
14,600.00	90.00	179.81	9,783.00	-4,460.35	283.51	4,461.27	0.00	0.00	0.00
14,700.00	90.00	179.81	9,783.00	-4,560.35	283.84	4,561.27	0.00	0.00	0.00
14,800.00	90.00	179.81	9,783.00	-4,660.35	284.16	4,661.27	0.00	0.00	0.00
14,900.00	90.00	179.81	9,783.00	-4,760.35	284.48	4,761.27	0.00	0.00	0.00
15,000.00	90.00	179.81	9,783.00	-4,860.35	284.81	4,861.27	0.00	0.00	0.00
15,100.00	90.00	179.81	9,783.00	-4,960.35	285.13	4,961.27	0.00	0.00	0.00
15,200.00	90.00	179.81	9,783.00	-5,060.35	285.46	5,061.27	0.00	0.00	0.00
15,300.00	90.00	179.81	9,783.00	-5,160.35	285.78	5,161.27	0.00	0.00	0.00
15,400.00	90.00	179.81	9,783.00	-5,260.35	286.11	5,261.27	0.00	0.00	0.00
15,500.00	90.00	179.81	9,783.00	-5,360.35	286.43	5,361.27	0.00	0.00	0.00
15,600.00	90.00	179.81	9,783.00	-5,460.35	286.76	5,461.27	0.00	0.00	0.00
15,700.00	90.00	179.81	9,783.00	-5,560.35	287.08	5,561.27	0.00	0.00	0.00
15,800.00	90.00	179.81	9,783.00	-5,660.34	287.41	5,661.27	0.00	0.00	0.00
15,900.00	90.00	179.81	9,783.00	-5,760.34	287.73	5,761.27	0.00	0.00	0.00
16,000.00	90.00	179.81	9,783.00	-5,860.34	288.06	5,861.27	0.00	0.00	0.00
16,100.00	90.00	179.81	9,783.00	-5,960.34	288.38	5,961.27	0.00	0.00	0.00
16,200.00	90.00	179.81	9,783.00	-6,060.34	288.71	6,061.27	0.00	0.00	0.00
16,300.00	90.00	179.81	9,783.00	-6,160.34	289.03	6,161.27	0.00	0.00	0.00
16,400.00	90.00	179.81	9,783.00	-6,260.34	289.36	6,261.27	0.00	0.00	0.00
16,500.00	90.00	179.81	9,783.00	-6,360.34	289.68	6,361.27	0.00	0.00	0.00
16,600.00	90.00	179.81	9,783.00	-6,460.34	290.01	6,461.27	0.00	0.00	0.00
16,700.00	90.00	179.81	9,783.00	-6,560.34	290.33	6,561.27	0.00	0.00	0.00
16,800.00	90.00	179.81	9,783.00	-6,660.34	290.65	6,661.27	0.00	0.00	0.00
16,900.00	90.00	179.81	9,783.00	-6,760.34	290.98	6,761.27	0.00	0.00	0.00
17,000.00	90.00	179.81	9,783.00	-6,860.34	291.30	6,861.27	0.00	0.00	0.00
17,100.00	90.00	179.81	9,783.00	-6,960.34	291.63	6,961.27	0.00	0.00	0.00

XTO ENERGY

Planning Report

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well 310H
Company:	XTO Energy	**TVD Reference:**	RKB = 30' @ 3396.00usft (TBD)
Project:	EDDY COUNTY, NM (NAD-27)	**MD Reference:**	RKB = 30' @ 3396.00usft (TBD)
Site:	POKER LAKE UNIT 30 BS	**North Reference:**	Grid
Well:	310H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

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)
17,200.00	90.00	179.81	9,783.00	-7,060.34	291.95	7,061.27	0.00	0.00	0.00
17,300.00	90.00	179.81	9,783.00	-7,160.34	292.28	7,161.27	0.00	0.00	0.00
17,400.00	90.00	179.81	9,783.00	-7,260.34	292.60	7,261.27	0.00	0.00	0.00
17,500.00	90.00	179.81	9,783.00	-7,360.34	292.93	7,361.27	0.00	0.00	0.00
17,600.00	90.00	179.81	9,783.00	-7,460.34	293.25	7,461.27	0.00	0.00	0.00
17,700.00	90.00	179.81	9,783.00	-7,560.33	293.58	7,561.27	0.00	0.00	0.00
17,800.00	90.00	179.81	9,783.00	-7,660.33	293.90	7,661.27	0.00	0.00	0.00
17,900.00	90.00	179.81	9,783.00	-7,760.33	294.23	7,761.27	0.00	0.00	0.00
18,000.00	90.00	179.81	9,783.00	-7,860.33	294.55	7,861.27	0.00	0.00	0.00
18,100.00	90.00	179.81	9,783.00	-7,960.33	294.88	7,961.27	0.00	0.00	0.00
18,200.00	90.00	179.81	9,783.00	-8,060.33	295.20	8,061.27	0.00	0.00	0.00
18,300.00	90.00	179.81	9,783.00	-8,160.33	295.53	8,161.27	0.00	0.00	0.00
18,400.00	90.00	179.81	9,783.00	-8,260.33	295.85	8,261.27	0.00	0.00	0.00
18,500.00	90.00	179.81	9,783.00	-8,360.33	296.18	8,361.27	0.00	0.00	0.00
18,600.00	90.00	179.81	9,783.00	-8,460.33	296.50	8,461.27	0.00	0.00	0.00
18,700.00	90.00	179.81	9,783.00	-8,560.33	296.82	8,561.27	0.00	0.00	0.00
18,800.00	90.00	179.81	9,783.00	-8,660.33	297.15	8,661.27	0.00	0.00	0.00
18,900.00	90.00	179.81	9,783.00	-8,760.33	297.47	8,761.27	0.00	0.00	0.00
19,000.00	90.00	179.81	9,783.00	-8,860.33	297.80	8,861.27	0.00	0.00	0.00
19,100.00	90.00	179.81	9,783.00	-8,960.33	298.12	8,961.27	0.00	0.00	0.00
19,200.00	90.00	179.81	9,783.00	-9,060.33	298.45	9,061.27	0.00	0.00	0.00
19,300.00	90.00	179.81	9,783.00	-9,160.33	298.77	9,161.27	0.00	0.00	0.00
19,400.00	90.00	179.81	9,783.00	-9,260.33	299.10	9,261.27	0.00	0.00	0.00
19,500.00	90.00	179.81	9,783.00	-9,360.33	299.42	9,361.27	0.00	0.00	0.00
19,600.00	90.00	179.81	9,783.00	-9,460.32	299.75	9,461.27	0.00	0.00	0.00
19,700.00	90.00	179.81	9,783.00	-9,560.32	300.07	9,561.27	0.00	0.00	0.00
19,800.00	90.00	179.81	9,783.00	-9,660.32	300.40	9,661.27	0.00	0.00	0.00
19,900.00	90.00	179.81	9,783.00	-9,760.32	300.72	9,761.27	0.00	0.00	0.00
20,000.00	90.00	179.81	9,783.00	-9,860.32	301.05	9,861.27	0.00	0.00	0.00
20,100.00	90.00	179.81	9,783.00	-9,960.32	301.37	9,961.27	0.00	0.00	0.00
20,200.00	90.00	179.81	9,783.00	-10,060.32	301.70	10,061.27	0.00	0.00	0.00
20,300.00	90.00	179.81	9,783.00	-10,160.32	302.02	10,161.27	0.00	0.00	0.00
20,400.00	90.00	179.81	9,783.00	-10,260.32	302.35	10,261.27	0.00	0.00	0.00
20,500.00	90.00	179.81	9,783.00	-10,360.32	302.67	10,361.27	0.00	0.00	0.00
20,600.00	90.00	179.81	9,783.00	-10,460.32	302.99	10,461.27	0.00	0.00	0.00
20,700.00	90.00	179.81	9,783.00	-10,560.32	303.32	10,561.27	0.00	0.00	0.00
20,800.00	90.00	179.81	9,783.00	-10,660.32	303.64	10,661.27	0.00	0.00	0.00
20,900.00	90.00	179.81	9,783.00	-10,760.32	303.97	10,761.27	0.00	0.00	0.00
21,000.00	90.00	179.81	9,783.00	-10,860.32	304.29	10,861.27	0.00	0.00	0.00
21,100.00	90.00	179.81	9,783.00	-10,960.32	304.62	10,961.27	0.00	0.00	0.00
21,200.00	90.00	179.81	9,783.00	-11,060.32	304.94	11,061.27	0.00	0.00	0.00
21,300.00	90.00	179.81	9,783.00	-11,160.32	305.27	11,161.27	0.00	0.00	0.00
21,400.00	90.00	179.81	9,783.00	-11,260.32	305.59	11,261.27	0.00	0.00	0.00
21,500.00	90.00	179.81	9,783.00	-11,360.31	305.92	11,361.27	0.00	0.00	0.00
21,600.00	90.00	179.81	9,783.00	-11,460.31	306.24	11,461.27	0.00	0.00	0.00
21,700.00	90.00	179.81	9,783.00	-11,560.31	306.57	11,561.27	0.00	0.00	0.00
21,800.00	90.00	179.81	9,783.00	-11,660.31	306.89	11,661.27	0.00	0.00	0.00
21,900.00	90.00	179.81	9,783.00	-11,760.31	307.22	11,761.27	0.00	0.00	0.00
22,000.00	90.00	179.81	9,783.00	-11,860.31	307.54	11,861.27	0.00	0.00	0.00
22,100.00	90.00	179.81	9,783.00	-11,960.31	307.87	11,961.27	0.00	0.00	0.00
22,200.00	90.00	179.81	9,783.00	-12,060.31	308.19	12,061.27	0.00	0.00	0.00
22,300.00	90.00	179.81	9,783.00	-12,160.31	308.52	12,161.27	0.00	0.00	0.00
22,400.00	90.00	179.81	9,783.00	-12,260.31	308.84	12,261.27	0.00	0.00	0.00
22,500.00	90.00	179.81	9,783.00	-12,360.31	309.16	12,361.27	0.00	0.00	0.00

XTO ENERGY

Planning Report

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well 310H
Company:	XTO Energy	**TVD Reference:**	RKB = 30' @ 3396.00usft (TBD)
Project:	EDDY COUNTY, NM (NAD-27)	**MD Reference:**	RKB = 30' @ 3396.00usft (TBD)
Site:	POKER LAKE UNIT 30 BS	**North Reference:**	Grid
Well:	310H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

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)
22,600.00	90.00	179.81	9,783.00	-12,460.31	309.49	12,461.27	0.00	0.00	0.00
22,700.00	90.00	179.81	9,783.00	-12,560.31	309.81	12,561.27	0.00	0.00	0.00
22,800.00	90.00	179.81	9,783.00	-12,660.31	310.14	12,661.27	0.00	0.00	0.00
22,900.00	90.00	179.81	9,783.00	-12,760.31	310.46	12,761.27	0.00	0.00	0.00
23,000.00	90.00	179.81	9,783.00	-12,860.31	310.79	12,861.27	0.00	0.00	0.00
23,100.00	90.00	179.81	9,783.00	-12,960.31	311.11	12,961.27	0.00	0.00	0.00
23,200.00	90.00	179.81	9,783.00	-13,060.31	311.44	13,061.27	0.00	0.00	0.00
23,300.00	90.00	179.81	9,783.00	-13,160.31	311.76	13,161.27	0.00	0.00	0.00
23,400.00	90.00	179.81	9,783.00	-13,260.30	312.09	13,261.27	0.00	0.00	0.00
23,500.00	90.00	179.81	9,783.00	-13,360.30	312.41	13,361.27	0.00	0.00	0.00
23,554.00	90.00	179.81	9,783.00	-13,414.30	312.59	13,415.26	0.00	0.00	0.00
310H LTP									
23,604.02	90.00	179.81	9,783.00	-13,464.32	312.75	13,465.28	0.00	0.00	0.00
310H BHL									

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
310H SHL - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	401,115.60	660,625.60	32.1017207	-103.8146070
310H LTP - plan misses target center by 0.19usft at 23554.00usft MD (9783.00 TVD, -13414.30 N, 312.59 E) - Point	0.00	0.00	9,783.00	-13,414.30	312.40	387,701.30	660,938.00	32.0648414	-103.8138068
310H FTP - plan hits target center - Point	0.00	0.00	9,783.00	1.78	269.02	401,117.38	660,894.62	32.1017220	-103.8137382
310H BHL - plan hits target center - Point	0.00	0.00	9,783.00	-13,464.32	312.75	387,651.28	660,938.35	32.0647039	-103.8138064

XTO ENERGY

Planning Report

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well 310H
Company:	XTO Energy	**TVD Reference:**	RKB = 30' @ 3396.00usft (TBD)
Project:	EDDY COUNTY, NM (NAD-27)	**MD Reference:**	RKB = 30' @ 3396.00usft (TBD)
Site:	POKER LAKE UNIT 30 BS	**North Reference:**	Grid
Well:	310H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
984.00	984.00	Rustler			
1,311.00	1,311.00	Top Salt			
3,979.06	3,972.00	Base Salt			
4,189.88	4,182.00	Delaware			
5,054.25	5,043.00	Cherry Canyon			
6,531.00	6,514.00	Brushy Canyon			
7,813.00	7,791.00	Basal Brushy Canyon			
8,030.85	8,008.00	Bone Spring Lime Fm			
8,153.32	8,130.00	Avalon Shale			
8,611.11	8,586.00	Avalon Lime			
8,799.84	8,774.00	1st Bone Spring Lime			
8,986.57	8,960.00	1st Bone Spring Ss			
9,462.28	9,429.00	2nd Bone Spring Lime			
9,794.10	9,683.00	2nd Bone Spring Ss			
10,137.85	9,783.00	TD			
10,137.85	9,783.00	Landing Point			

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO
LEASE NO.:	**NMLC061634B**
LOCATION:	Sec. 30, T.25 S, R 31 E
COUNTY:	Eddy County, New Mexico
WELL NAME & NO.:	Poke Lake Unit 30 BS 208H
SURFACE HOLE FOOTAGE:	2435'/N & 1980'/W
BOTTOM HOLE FOOTAGE:	50'/S & 1650/W

WELL NAME & NO.:	Poke Lake Unit 30 BS 210H
SURFACE HOLE FOOTAGE:	2435'/N & 2040'/W
BOTTOM HOLE FOOTAGE:	50'/S & 2530'/W

WELL NAME & NO.:	Poke Lake Unit 30 BS 308H
SURFACE HOLE FOOTAGE:	2435'/N & 1979'/E
BOTTOM HOLE FOOTAGE:	50'/S & 2440'/E

WELL NAME & NO.:	Poke Lake Unit 30 BS 309H
SURFACE HOLE FOOTAGE:	2435'/N & 1949'/E
BOTTOM HOLE FOOTAGE:	50'/S & 2090'/E

WELL NAME & NO.:	Poke Lake Unit 30 BS 310H
SURFACE HOLE FOOTAGE:	2435'/N & 1919'/E
BOTTOM HOLE FOOTAGE:	50'/S & 1650'/E

WELL NAME & NO.:	Poke Lake Unit 30 BS 409H
SURFACE HOLE FOOTAGE:	2435'/N & 629'/E
BOTTOM HOLE FOOTAGE:	50'/S & 770'/E

WELL NAME & NO.:	Poke Lake Unit 30 BS 410H
SURFACE HOLE FOOTAGE:	2435'/N & 599'/E
BOTTOM HOLE FOOTAGE:	50'/S & 330'/E

COA

Approval Date: 07/12/2024

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

A. HYDROGEN SULFIDE

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

B. CASING

1. The **9-5/8** inch surface casing shall be set at approximately **1084** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

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

2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

    a. **First stage:** Operator will cement with intent to reach the top of the **Brushy Canyon at ~ 6508'-6538.'**

    b. **Second stage:** Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified.

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

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

- ❖ **Operator has proposed to pump down** Surface **X** Intermediate 1 **annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the** Choose an item. **casing to tieback requirements listed above after the second stage BH to verify TOC.** Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

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

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
   - Cement should tie-back 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. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.

   a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
   b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
   c. Manufacturer representative shall install the test plug for the initial BOP test.
   d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
   e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

Approval Date: 07/12/2024

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

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

Approval Date: 07/12/2024

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220; **BLM_NM_CFO_DrillingNotifications@BLM.GOV**; (575) 361-2822

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

A. CASING

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

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

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's

requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
    i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    iii. Manufacturer representative shall install the test plug for the initial BOP test.
    iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
    v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
    i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
    ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve

open. (only applies to single stage cement jobs, prior to the cement setting up.)

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

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

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

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

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

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be

disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Approved by Zota Stevens on 7/10/2024
575-234-5998 / zstevens@blm.gov

Approval Date: 07/12/2024

□□DROG□□ S□L□ID□ □□2S□CO□TI□G□□C□ PL□□

□ss□med 100 ppm RO□ = 3000’

100 ppm H2S concentration shall trigger activation of this plan.

□mergenc□ Proced□res

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 o□Gas so□rce

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.

C□aracteristics o□□$_2$S and SO_2

Common □ame	C□emical □orm□la	Speci□ic Gra□it□	T□res□old Limit	□a□ardo□s Limit	Let□al Concentration
□□drogen S□l□ide	□$_2$S	1.1□9 □ir = l	10 ppm	100 ppm/□r	600 ppm
S□l□r Dioxide	SO_2	2.21 □ir = l	2 ppm	□/□	1000 ppm

Contacting □□t□orities

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:

Christopher Cha, Drilling Manager	432-701-1730
Matt Water, Drilling Superintendent	432-967-8203
Robert Bartels, Construction Foreman	406-478-3617
Andy Owens, EH & S Manager	903-245-2602
Mike Allen, Production Foreman	918-421-9056

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:

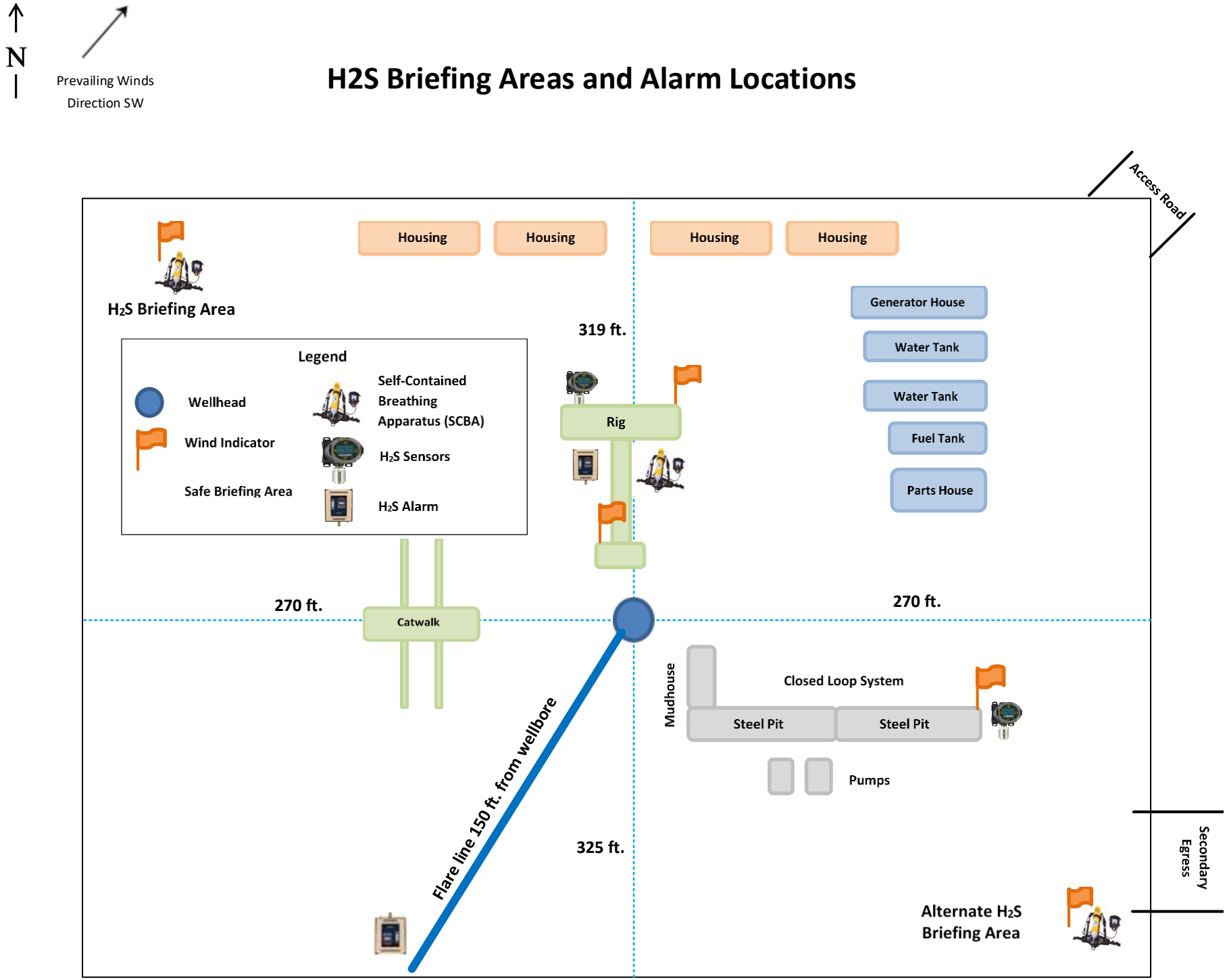
For Lea County:

Bureau of Land Management – Hobbs	575-393-3612
New Mexico Oil Conservation Division – Hobbs	505-629-6116

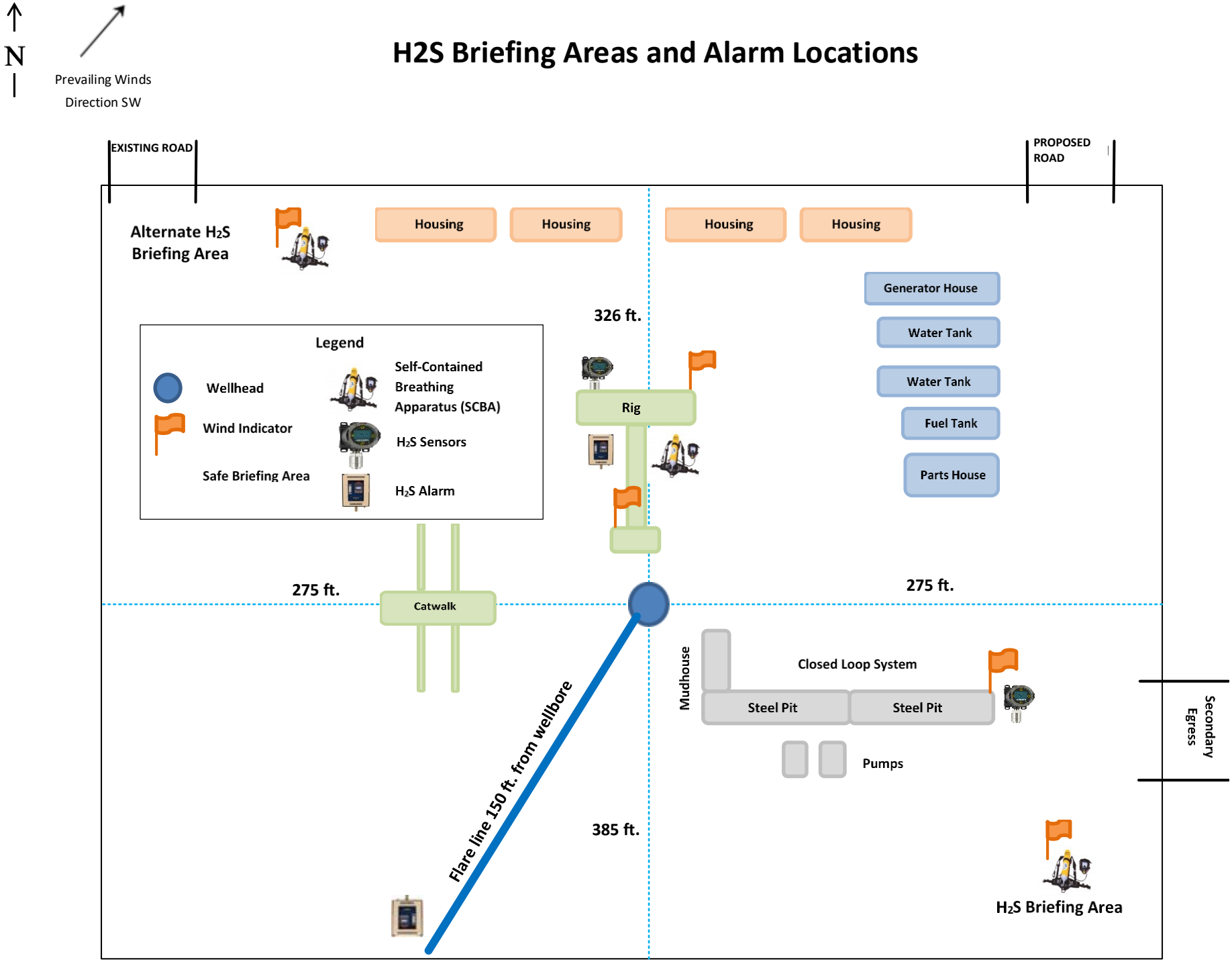
For Eddy County:

Bureau of Land Management - Carlsbad	575-234-5972
New Mexico Oil Conservation Division - Artesia	505-629-6116

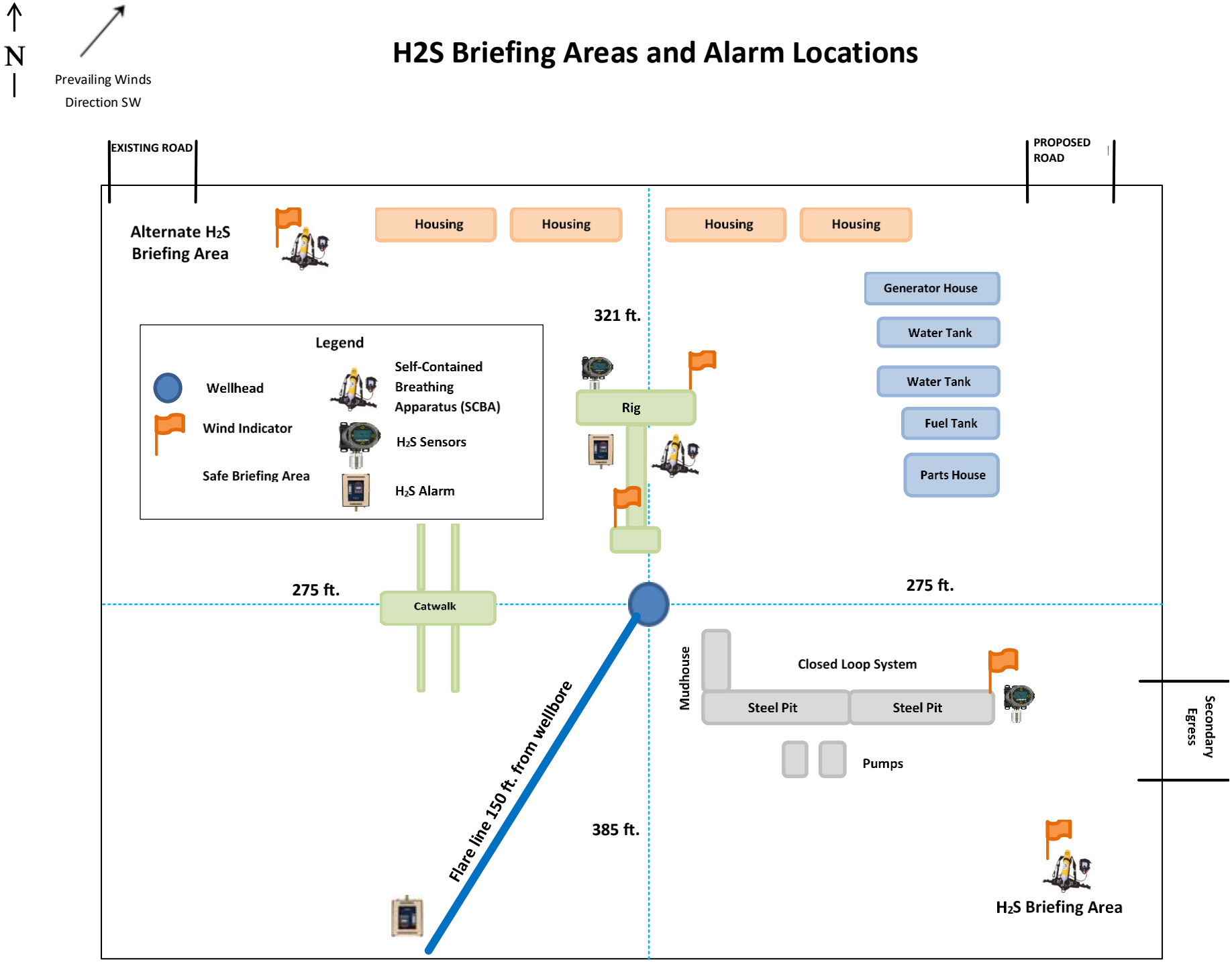
H2S Briefing Areas and Alarm Locations



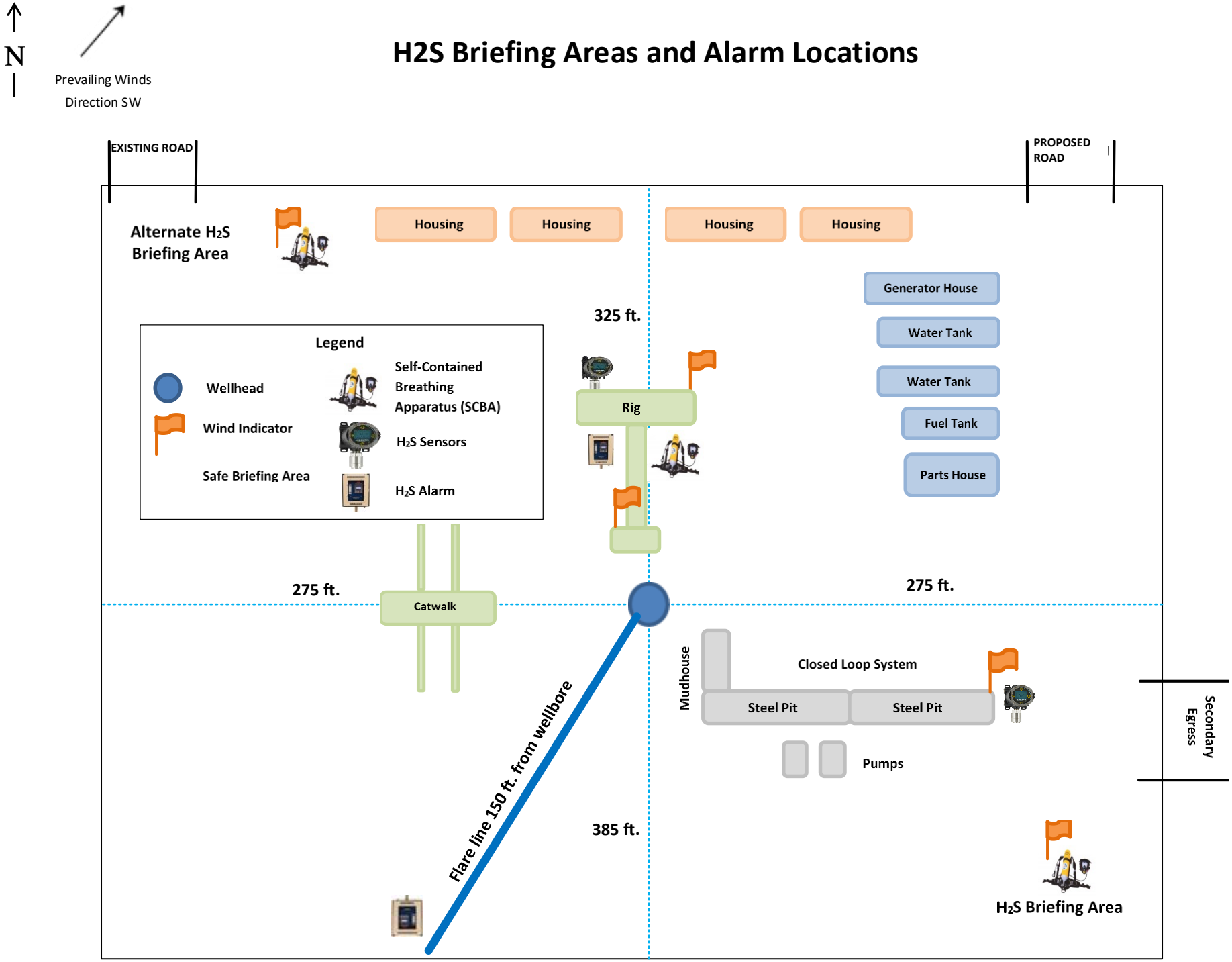
H2S Briefing Areas and Alarm Locations



H2S Briefing Areas and Alarm Locations



H2S Briefing Areas and Alarm Locations



Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 30 BS **Well Number:** 310H

Safe containmant attachment:

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

Disposal type description:

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

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

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

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

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? Y

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

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

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

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

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 30 BS **Well Number:** 310H

Section 9 - Well Site

Well Site Layout Diagram:

PLU_30_BS_310H_Well_20230927165448.pdf

PLU_30_BS_310H_RL_20240606093630.pdf

Comments: Multi-well pad.

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance **Multiple Well Pad Name:** PLU 30 BS

Multiple Well Pad Number: C

Recontouring

PLU_30_BS_IR3_20240606093546.pdf

PLU_30_BS_IR4_20240606093546.pdf

PLU_30_BS_IR2_20240606093547.pdf

PLU_30_BS_IR1_20240607131819.pdf

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

Drainage/Erosion control reclamation: Erosion features are equal to or less than surrounding area and erosion control is sufficient so that water naturally infiltrates into the soil and gullying, headcutting, slumping, and deep or excessive rills (greater than 3 inches) are not observed.

Well pad proposed disturbance (acres): 11.37	**Well pad interim reclamation (acres):** 1.62	**Well pad long term disturbance (acres):** 9.75
Road proposed disturbance (acres): 3.85	**Road interim reclamation (acres):** 0	**Road long term disturbance (acres):** 3.85
Powerline proposed disturbance (acres): 0	**Powerline interim reclamation (acres):** 0	**Powerline long term disturbance (acres):** 0
Pipeline proposed disturbance (acres): 0	**Pipeline interim reclamation (acres):** 0	**Pipeline long term disturbance (acres):** 0
Other proposed disturbance (acres): 0	**Other interim reclamation (acres):** 0	**Other long term disturbance (acres):** 0
Total proposed disturbance: 15.219999999999999	**Total interim reclamation:** 1.62	**Total long term disturbance:** 13.6

Disturbance Comments:

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

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

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

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 30 BS **Well Number:** 310H

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

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 30 BS **Well Number:** 310H

Seed

Seed Table

Seed Summary

Total pounds/Acre:

Seed Type	Pounds/Acre

Seed reclamation

Operator Contact/Responsible Official

First Name: Robert **Last Name:** Bartels

Phone: (406)478-3617 **Email:** robert.e.bartels@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 in order 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. If the site is harrowed or dragged, seed will be covered by no more than 0.25 inch of soil.
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.
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 Ownership

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 30 BS **Well Number:** 310H

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 30 BS **Well Number:** 310H

Disturbance type: NEW 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: 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:**

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 30 BS **Well Number:** 310H

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:**

Disturbance type: PIPELINE

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 30 BS **Well Number:** 310H

Section 12 - Other

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

ROW Type(s): 281001 ROW - ROADS,285003 ROW – POWER TRANS,288100 ROW – O&G Pipeline,289001 ROW- O&G Well Pad

ROW

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

Use a previously conducted onsite? Y

Previous Onsite information: June 9, 2022 with Zane Kirsch/Ben Katchner were the BLM Natural Resource Specialist.

Other SUPO

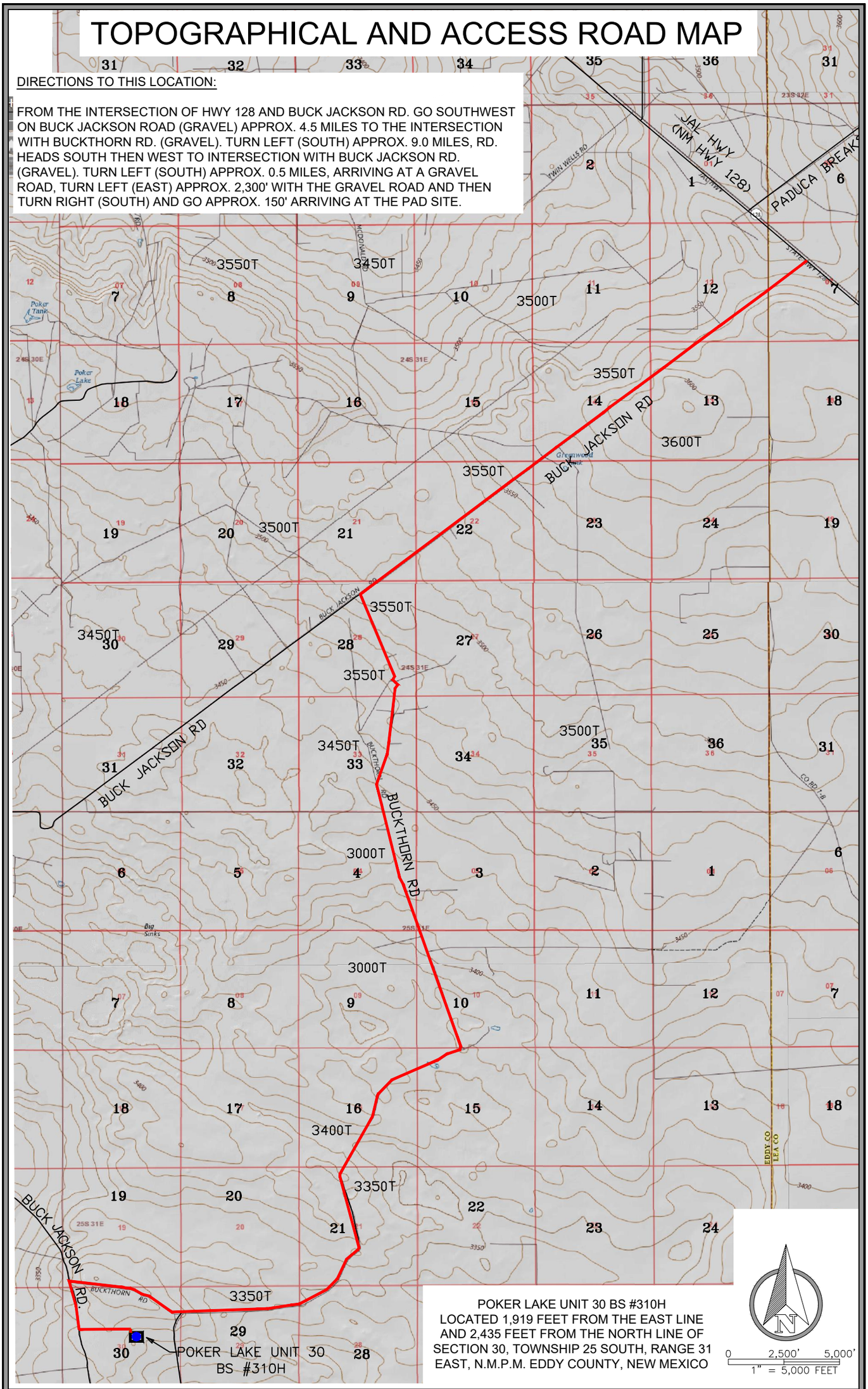
POKE_LAKE_UNIT_30_BS_WELL_LIST_20230926142733.pdf

PLU_30_BS_SUPO_20240607131941.pdf

TOPOGRAPHICAL AND ACCESS ROAD MAP

DIRECTIONS TO THIS LOCATION:

FROM THE INTERSECTION OF HWY 128 AND BUCK JACKSON RD. GO SOUTHWEST ON BUCK JACKSON ROAD (GRAVEL) APPROX. 4.5 MILES TO THE INTERSECTION WITH BUCKTHORN RD. (GRAVEL). TURN LEFT (SOUTH) APPROX. 9.0 MILES, RD. HEADS SOUTH THEN WEST TO INTERSECTION WITH BUCK JACKSON RD. (GRAVEL). TURN LEFT (SOUTH) APPROX. 0.5 MILES, ARRIVING AT A GRAVEL ROAD, TURN LEFT (EAST) APPROX. 2,300' WITH THE GRAVEL ROAD AND THEN TURN RIGHT (SOUTH) AND GO APPROX. 150' ARRIVING AT THE PAD SITE.



POKER LAKE UNIT 30 BS #310H
LOCATED 1,919 FEET FROM THE EAST LINE AND 2,435 FEET FROM THE NORTH LINE OF SECTION 30, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

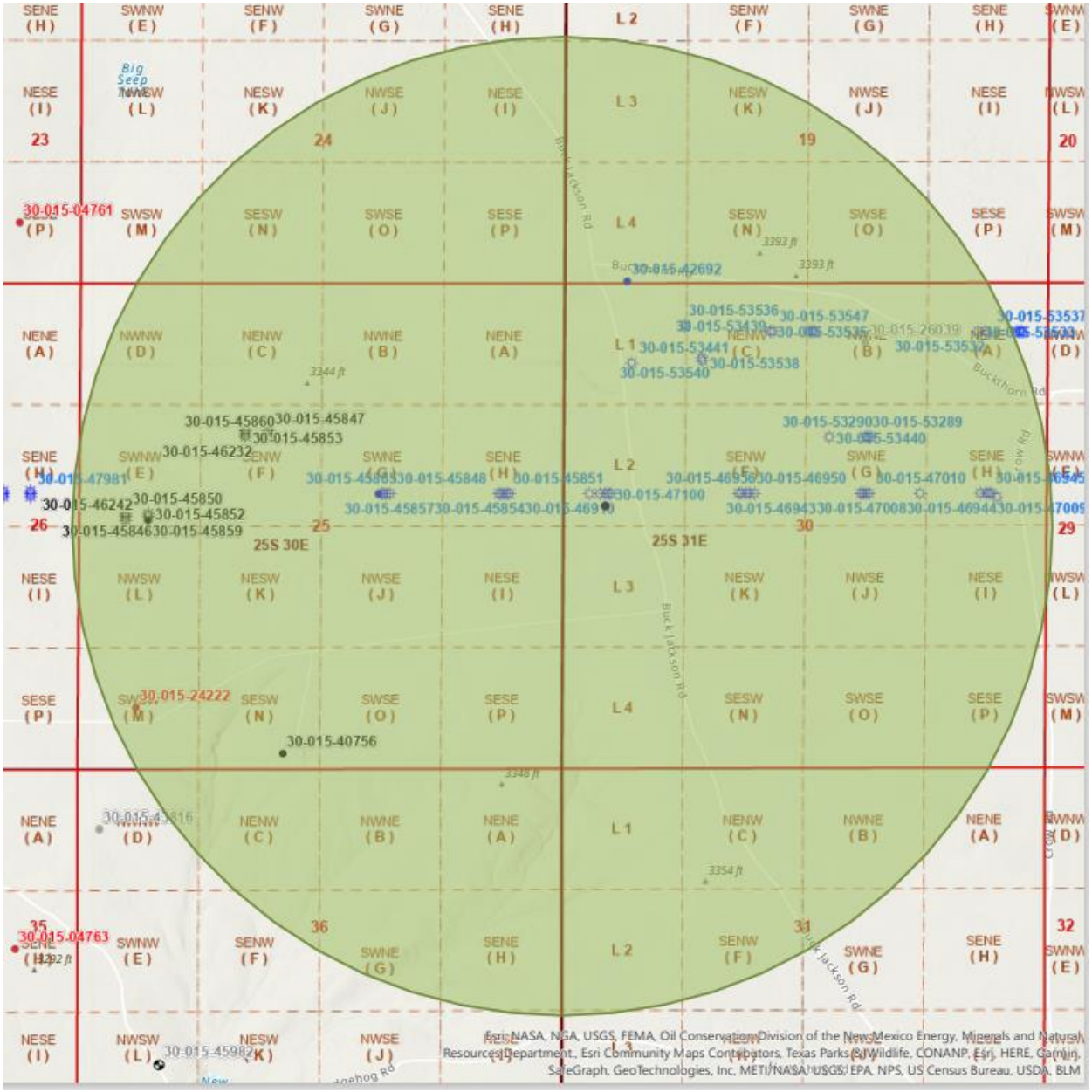
N

0 2,500' 5,000'
1" = 5,000 FEET

FSC INC SURVEYORS+ENGINEERS
550 Bailey Ave., 205 - Fort Worth, TX 76107
Ph: 817.349.9800 - Fax: 979.732.5271
TBPE Firm 17957 | TBPLS Firm 10193887
www.fscinc.net

DATE:	8-1-2023	PROJECT NO:	2023040190
DRAWN BY:	JAR/LB	SCALE:	1" = 5,000'
CHECKED BY:	DH	SHEET:	1 OF 1
FIELD CREW:	RE/PH	REVISION:	1

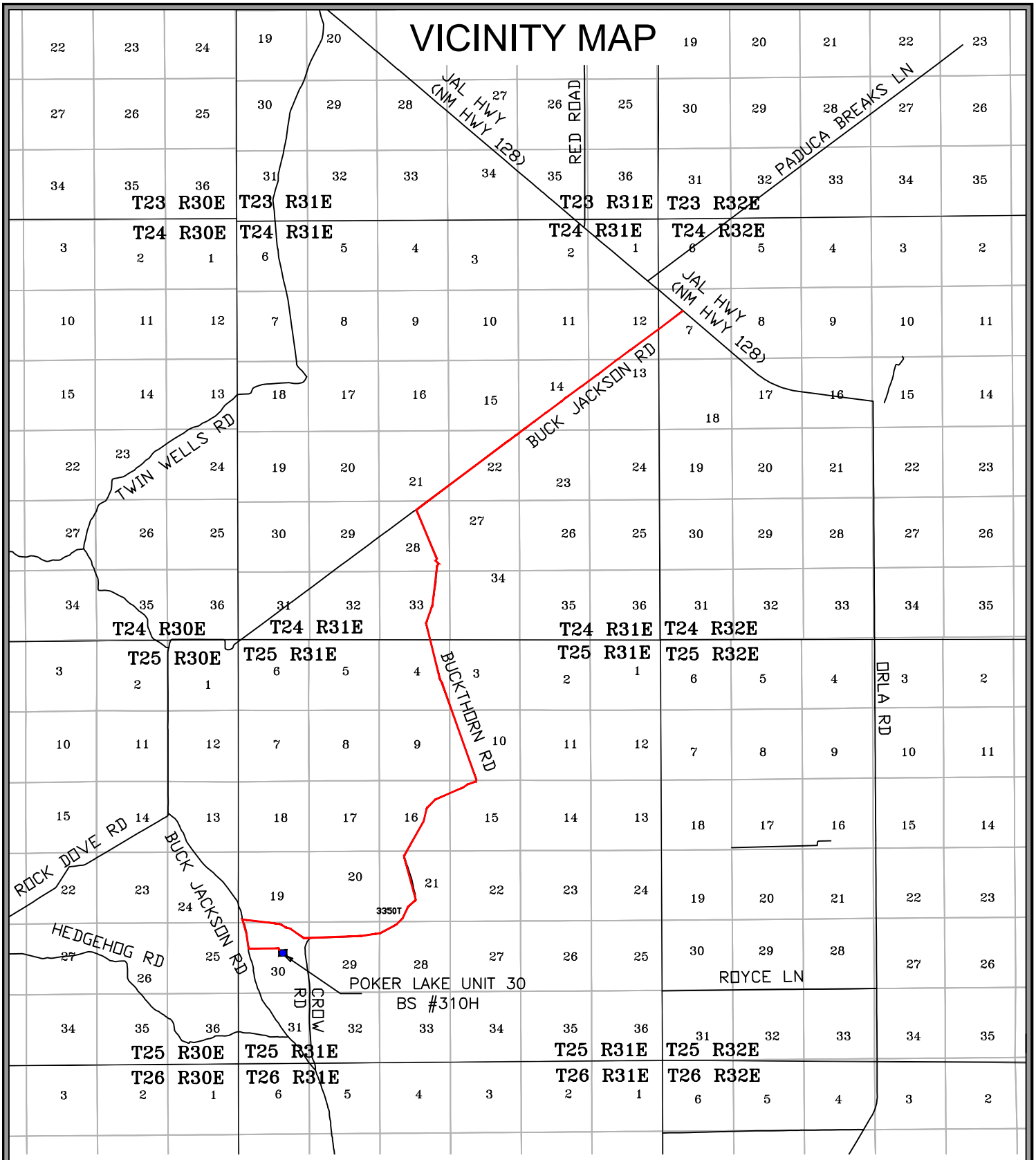
1 Mile Radius Map



N

Poker Lake Unit 30 BS

VICINITY MAP



POKER LAKE UNIT 30 BS #310H
LOCATED 1,919 FEET FROM THE EAST LINE AND 2,435 FEET FROM THE NORTH LINE OF SECTION 30, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

0 5,000' 10,000'
1" = 10,000 FEET

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DATE:	8-1-2023
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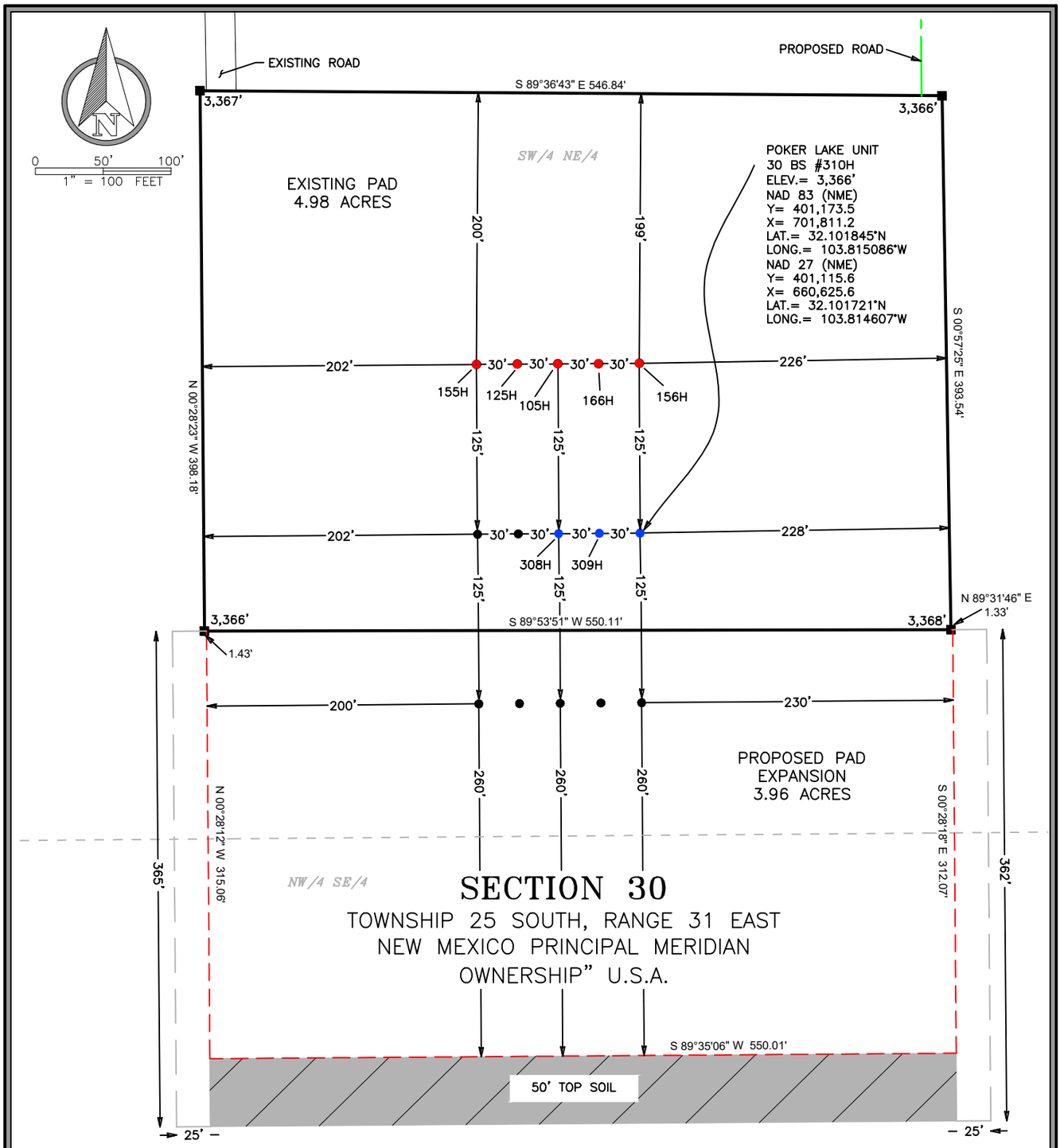
PROJECT NO:	2023040190
SCALE:	1"= 10,000'
SHEET:	1 OF 1
REVISION:	1



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.

1 Aug 2023

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

TIM C. PAPPAS NEW MEXICO 21209 PROFESSIONAL SURVEYOR

NOTE:

1). SEE "TOPOGRAPHICAL AND ACCESS ROAD MAP" FOR EXISTING ROAD LOCATION

DIRECTIONS TO THIS LOCATION:

FROM THE INTERSECTION OF HWY 128 AND BUCK JACKSON RD. GO SOUTHWEST ON BUCK JACKSON ROAD (GRAVEL) APPROX. 4.5 MILES TO THE INTERSECTION WITH BUCKTHORN RD. (GRAVEL). TURN LEFT (SOUTH) APPROX. 9.0 MILES, RD. HEADS SOUTH THEN WEST TO INTERSECTION WITH BUCK JACKSON RD. (GRAVEL). TURN LEFT (SOUTH) APPROX. 0.5 MILES, ARRIVING AT A GRAVEL ROAD, TURN LEFT (EAST) APPROX. 2,300' WITH THE GRAVEL ROAD AND THEN TURN RIGHT (SOUTH) AND GO APPROX. 150' ARRIVING AT THE PAD SITE.

LEGEND

- PROPOSED PAD EXPANSION
- PROPOSED 25' CUT/FILL LINE
- PROPOSED ROAD
- EXISTING ROAD
- DRILLED SURFACE HOLE LOCATION
- PERMITTED SURFACE HOLE LOCATION
- TBD SURFACE HOLE LOCATION

XTO PERMIAN OPERATING, LLC.

WELL SITE PLAN
PAD C

POKER LAKE UNIT 30 BS #310H
LOCATED 1,919 FEET FROM THE EAST LINE AND 2,435 FEET FROM THE NORTH LINE OF SECTION 30, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

DATE:	8-1-2023	PROJECT NO:	2023040190
DRAWN BY:	AI/LB/CF	SCALE:	1" = 100'
CHECKED BY:	DH	SHEET:	1 OF 1
FIELD CREW:	RE	REVISION:	1

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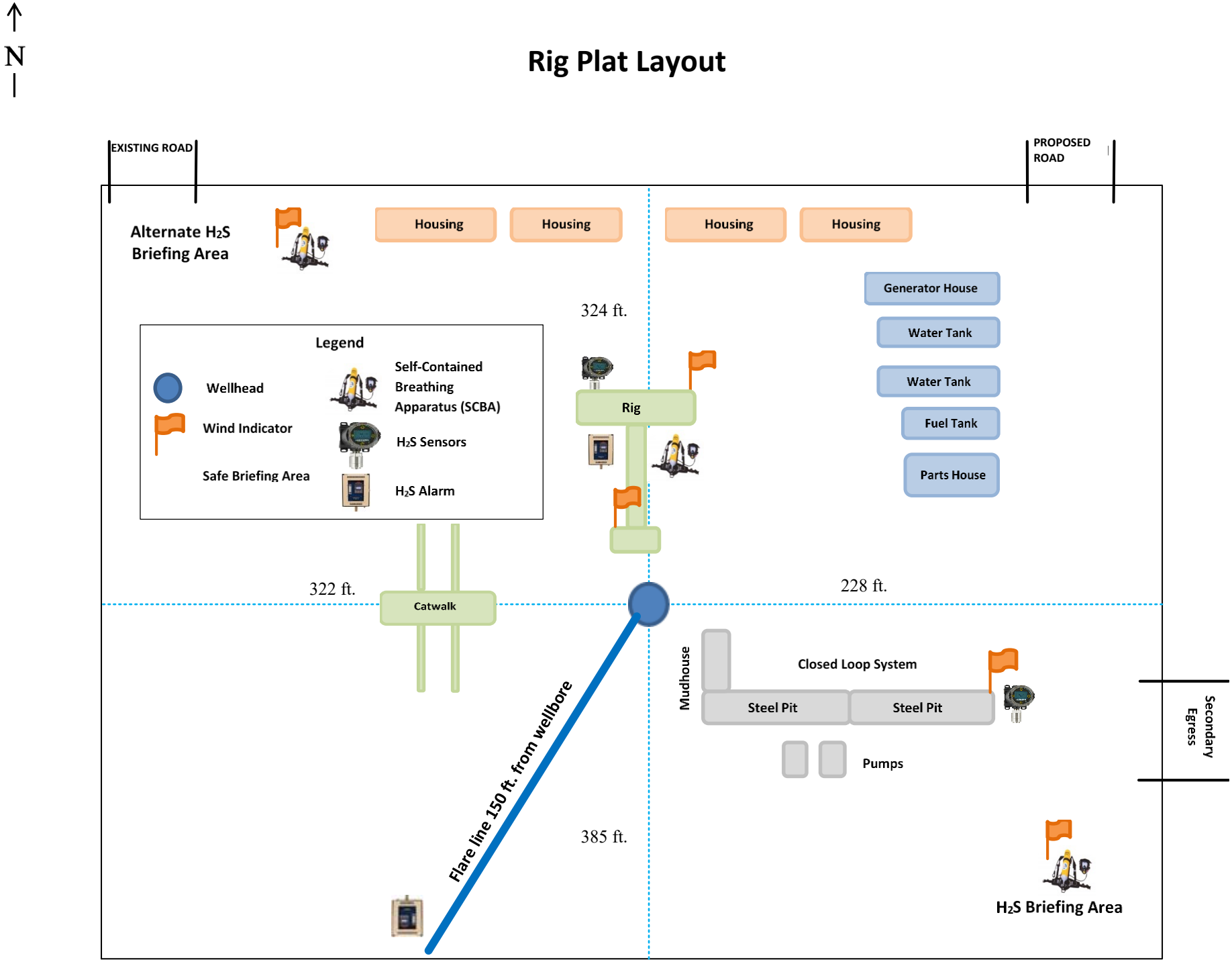
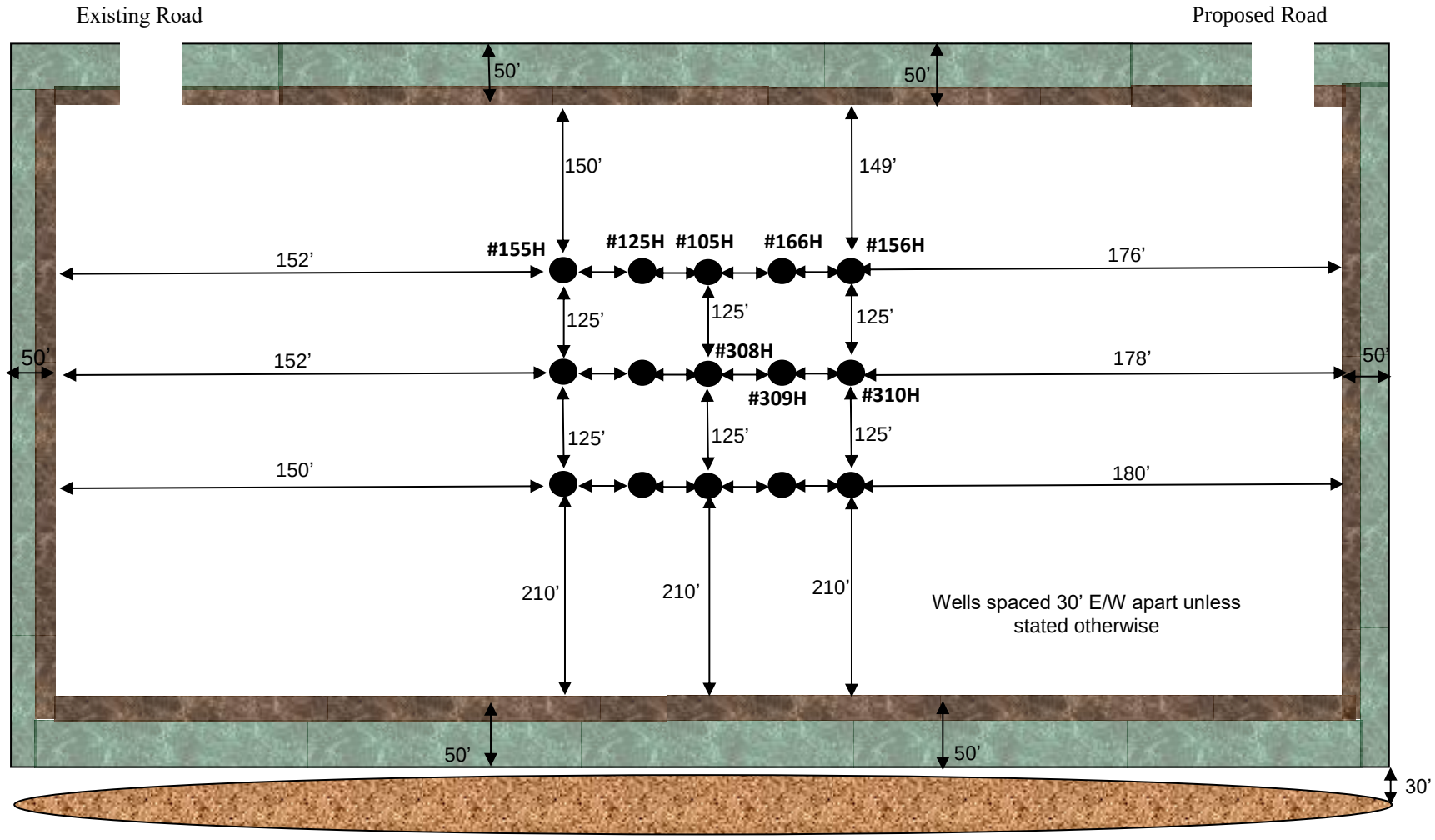
Rig Plat Layout



Interim Reclamation Diagram

Poker Lake Unit 30 BS: 155H, 125H, 105H, 166H, 156H, 308H, 309H, 310H
All Wells Without Numbers are 'TBD' Allocations for Future Development



LEGEND

N

Wellbore

Interim Reclamation

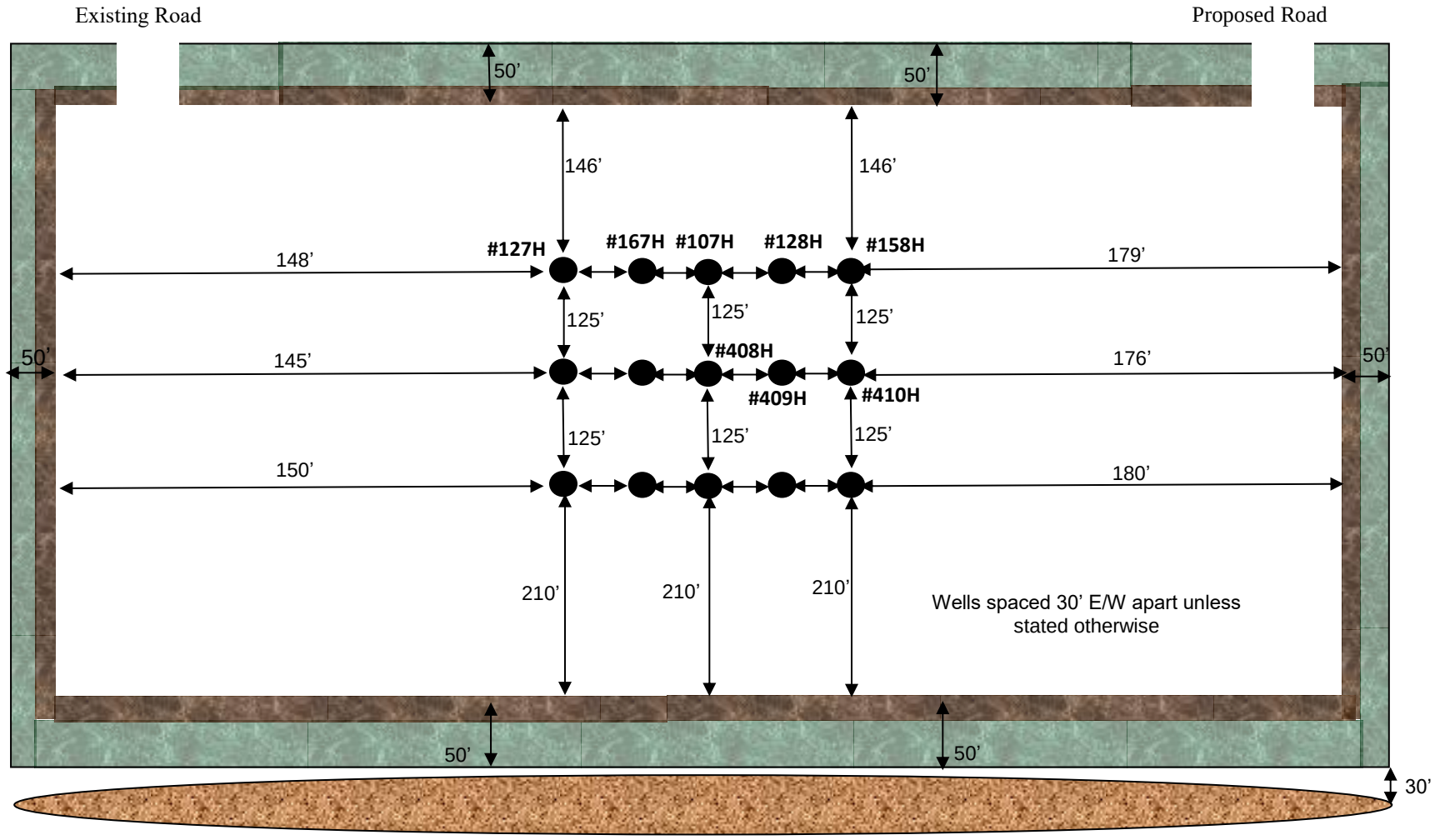
Ditch & Berm

Topsoil

*Diagram Not to Scale

Interim Reclamation Diagram

Poker Lake Unit 30 BS: 127H, 167H, 107H, 128H, 158H, 408H, 409H, 410H
All Wells Without Numbers are 'TBD' Allocations for Future Development



LEGEND

N

Wellbore

Interim Reclamation

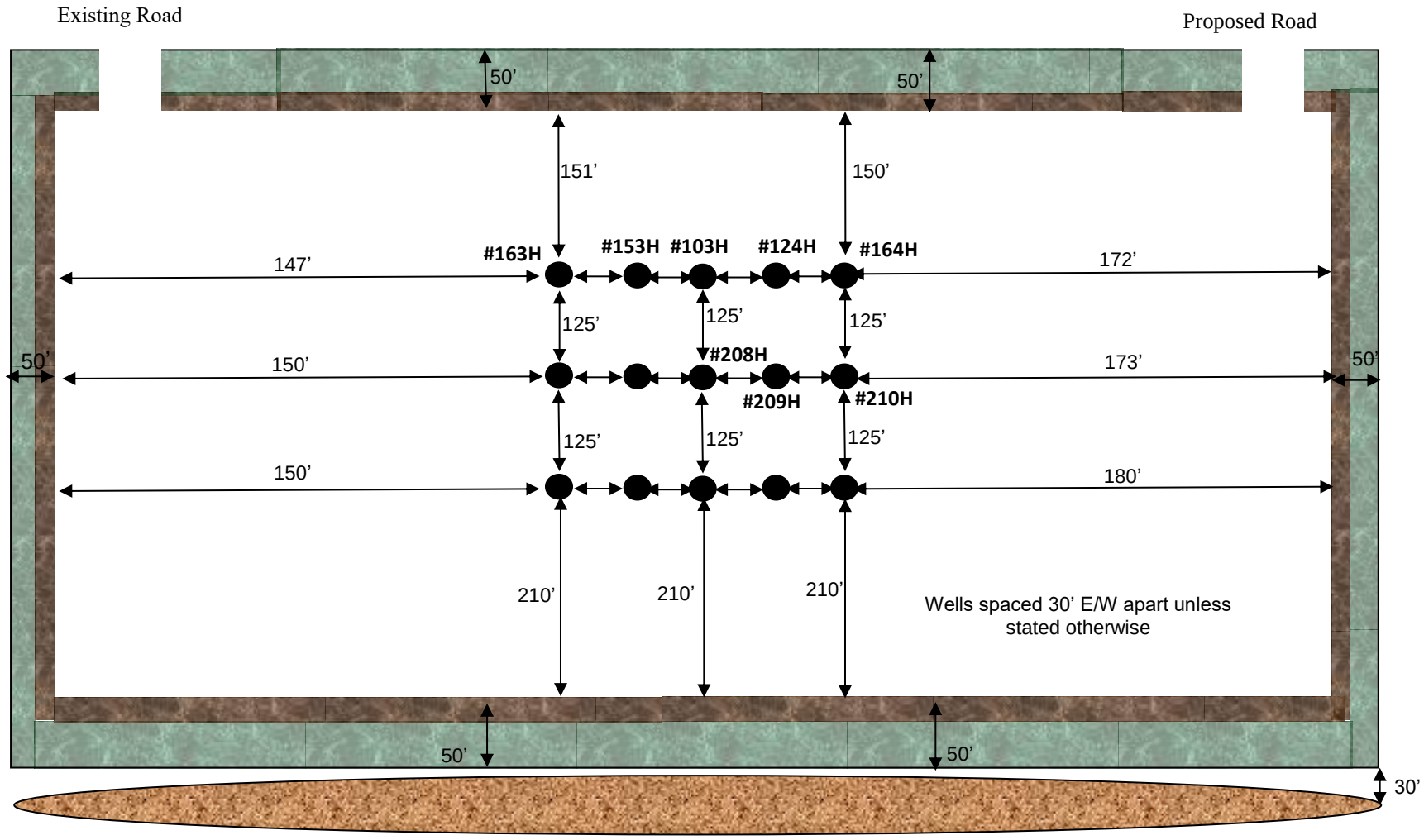
Ditch & Berm

Topsoil

*Diagram Not to Scale

Interim Reclamation Diagram

Poker Lake Unit 30 BS: 163H, 153H, 103H, 124H, 164H, 208H, 209H, 210H
All Wells Without Numbers are 'TBD' Allocations for Future Development



LEGEND

N

Wellbore

Interim Reclamation

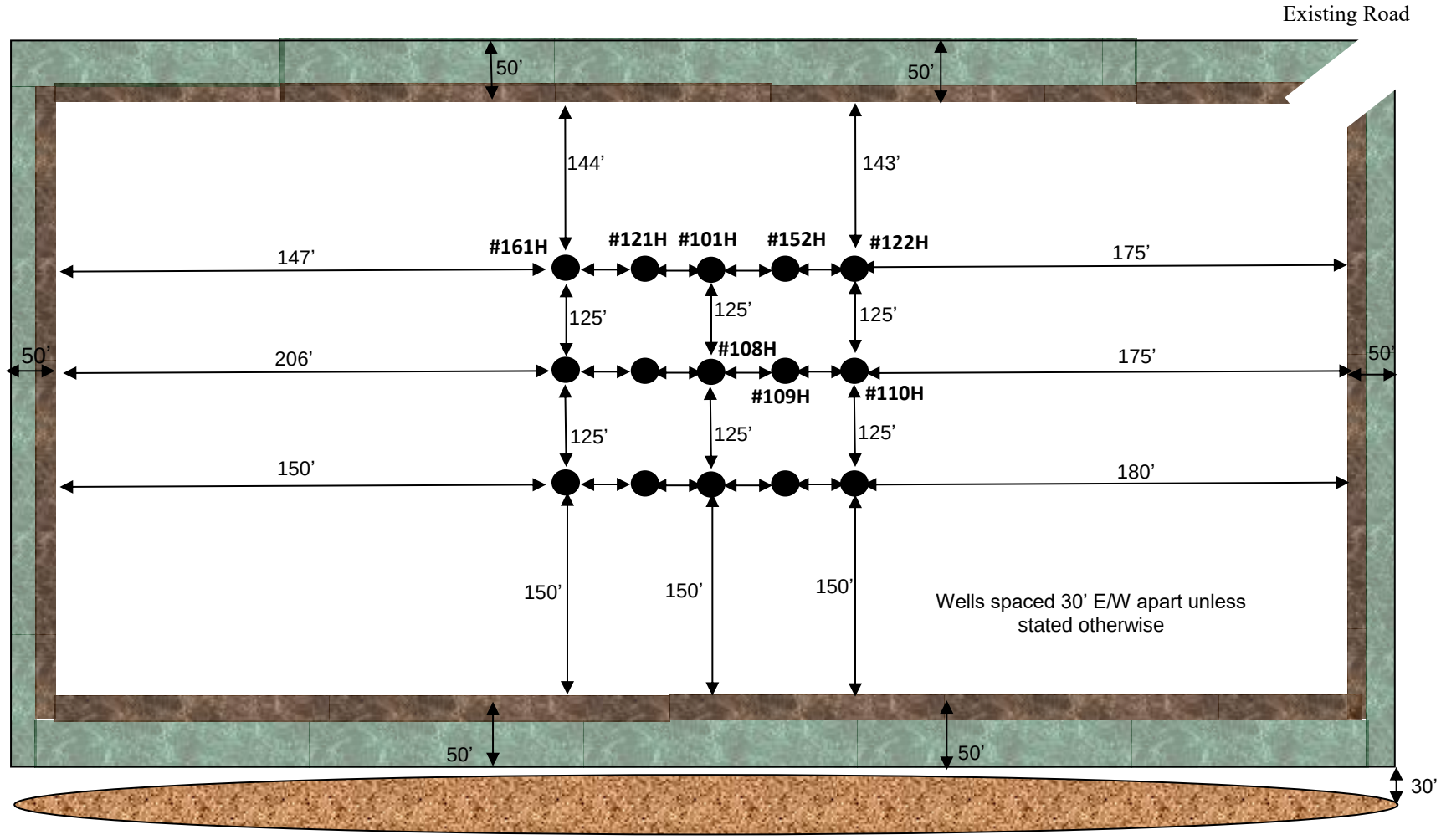
Ditch & Berm

Topsoil

*Diagram Not to Scale

Interim Reclamation Diagram

Poker Lake Unit 30 BS: 161H, 121H, 101H, 152H, 122H, 108H, 109H, 110H
All Wells Without Numbers are 'TBD' Allocations for Future Development



LEGEND

N

Wellbore

Interim Reclamation

Ditch & Berm

Topsoil

*Diagram Not to Scale

POKER LAKE UNIT 30 BS

Permitted APDs

POKER LAKE UNIT 30 BS #108H: PAD A – B3
Surface Hole Location: 455’ FWL & 2435’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: 330’ FWL & 50’ FSL, Section 6, T. 26 S. R. 31 E.

POKER LAKE UNIT 30 BS #109H: PAD A **–** B4
Surface Hole Location: 485’ FWL & 2435’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: 770’ FWL & 50’ FSL, Section 6, T. 26 S. R. 31 E.

POKER LAKE UNIT 30 BS #110H: PAD A – B5
Surface Hole Location: 515’ FWL & 2435’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: 1210’ FWL & 50’ FSL, Section 6, T. 26 S. R. 31 E.

POKER LAKE UNIT 30 BS #208H: PAD B – B3
Surface Hole Location: 1980’ FWL & 2435’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: 1650’ FWL & 50’ FSL, Section 6, T. 26 S. R. 31 E.

POKER LAKE UNIT 30 BS #209H: PAD B – B4
Surface Hole Location: 2010’ FWL & 2435’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: 2090’ FWL & 50’ FSL, Section 6, T. 26 S. R. 31 E.

POKER LAKE UNIT 30 BS #210H: PAD B – B5
Surface Hole Location: 2040’ FWL & 2435’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: 2530’ FWL & 50’ FSL, Section 6, T. 26 S. R. 31 E.

POKER LAKE UNIT 30 BS #308H: PAD C – B3
Surface Hole Location: 1979’ FEL & 2435’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: 2440’ FEL & 50’ FSL, Section 6, T. 26 S. R. 31 E.

POKER LAKE UNIT 30 BS #309H: PAD C – B4
Surface Hole Location: 1949’ FEL & 2435’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: 2090’ FEL & 50’ FSL, Section 6, T. 26 S. R. 31 E.

POKER LAKE UNIT 30 BS #310H: PAD C – B5
Surface Hole Location: 1919’ FEL & 2435’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: 1650’ FEL & 50’ FSL, Section 6, T. 26 S. R. 31 E.

POKER LAKE UNIT 30 BS #408H: PAD D – B3
Surface Hole Location: 659’ FEL & 2435’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: 1210’ FEL & 50’ FSL, Section 6, T. 26 S. R. 31 E.

POKER LAKE UNIT 30 BS #409H: PAD D – B4
Surface Hole Location: 629’ FEL & 2435’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: 770’ FEL & 50’ FSL, Section 6, T. 26 S. R. 31 E.

POKER LAKE UNIT 30 BS

POKER LAKE UNIT 30 BS #410H: PAD D – B5
Surface Hole Location: 599’ FEL & 2435’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: 330’ FEL & 50’ FSL, Section 6, T. 26 S. R. 31 E.

Planned APDs

FUTURE WELL #1: PAD A – B1
Surface Hole Location: 395’ FWL & 2435’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: To Be Determined

FUTURE WELL #2: PAD A – B2
Surface Hole Location: 425’ FWL & 2435’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: To Be Determined

FUTURE WELL #3: PAD A – C1
Surface Hole Location: 395’ FWL & 2560’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: To Be Determined

FUTURE WELL #4: PAD A – C2
Surface Hole Location: 425’ FWL & 2560’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: To Be Determined

FUTURE WELL #5: PAD A – C3
Surface Hole Location: 455’ FWL & 2560’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: To Be Determined

FUTURE WELL #6: PAD A – C4
Surface Hole Location: 485’ FWL & 2560’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: To Be Determined

FUTURE WELL #7: PAD A – C5
Surface Hole Location: 515’ FWL & 2560’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: To Be Determined

FUTURE WELL #8: PAD B – B1
Surface Hole Location: 1920’ FWL & 2435’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: To Be Determined

FUTURE WELL #9: PAD B – B2
Surface Hole Location: 1950’ FWL & 2435’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: To Be Determined

FUTURE WELL #10: PAD B – C1
Surface Hole Location: 1921’ FWL & 2560’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: To Be Determined

FUTURE WELL #11: PAD B – C2
Surface Hole Location: 1951’ FWL & 2560’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: To Be Determined

POKER LAKE UNIT 30 BS

FUTURE WELL #12: PAD B – C3
Surface Hole Location: 1981’ FWL & 2560’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: To Be Determined

FUTURE WELL #13: PAD B – C4
Surface Hole Location: 2011’ FWL & 2560’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: To Be Determined

FUTURE WELL #14: PAD B – C5
Surface Hole Location: 2041’ FWL & 2560’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: To Be Determined

FUTURE WELL #15: PAD C – B1
Surface Hole Location: 2039’ FEL & 2435’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: To Be Determined

FUTURE WELL #16: PAD C – B2
Surface Hole Location: 2009’ FEL & 2435’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: To Be Determined

FUTURE WELL #17: PAD C – C1
Surface Hole Location: 2037’ FEL & 2560’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: To Be Determined

FUTURE WELL #18: PAD C – C2
Surface Hole Location: 2007’ FEL & 2560’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: To Be Determined

FUTURE WELL #19: PAD C – C3
Surface Hole Location: 1977’ FEL & 2560’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: To Be Determined

FUTURE WELL #20: PAD C – C4
Surface Hole Location: 1947’ FEL & 2560’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: To Be Determined

FUTURE WELL #21: PAD C – C5
Surface Hole Location: 1917’ FEL & 2560’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: To Be Determined

FUTURE WELL #22: PAD D – B1
Surface Hole Location: 719’ FEL & 2435’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: To Be Determined

POKER LAKE UNIT 30 BS

FUTURE WELL #23: PAD D – B2
Surface Hole Location: 689’ FEL & 2435’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: To Be Determined

FUTURE WELL #24: PAD D – C1
Surface Hole Location: 717’ FEL & 2560’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: To Be Determined

FUTURE WELL #25: PAD D – C2
Surface Hole Location: 687’ FEL & 2560’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: To Be Determined

FUTURE WELL #26: PAD D – C3
Surface Hole Location: 657’ FEL & 2560’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: To Be Determined

FUTURE WELL #27: PAD D – C4
Surface Hole Location: 627’ FEL & 2560’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: To Be Determined

FUTURE WELL #28: PAD D – C5
Surface Hole Location: 597’ FEL & 2560’ FNL, Section 30, T. 25 S. R. 31 E.
Bottom Hole Location: To Be Determined

SURFACE USE PLAN
XTO Energy Inc.
POKER LAKE UNIT 30 BS
S30 T25S R31E

Well Name	SHL N/S Footage (ft)	SHL N/S Footage Line	SHL E/W Footage (ft)	SHL E/W Footage Line
POKER LAKE UNIT 30 BS 108H	2435	FNL	455	FWL
POKER LAKE UNIT 30 BS 109H	2435	FNL	485	FWL
POKER LAKE UNIT 30 BS 110H	2435	FNL	515	FWL
POKER LAKE UNIT 30 BS 208H	2435	FNL	1980	FWL
POKER LAKE UNIT 30 BS 209H	2435	FNL	2010	FWL
POKER LAKE UNIT 30 BS 210H	2435	FNL	2040	FWL
POKER LAKE UNIT 30 BS 308H	2435	FNL	1979	FEL
POKER LAKE UNIT 30 BS 309H	2435	FNL	1949	FEL
POKER LAKE UNIT 30 BS 310H	2435	FNL	1919	FEL
POKER LAKE UNIT 30 BS 408H	2435	FNL	659	FEL
POKER LAKE UNIT 30 BS 409H	2435	FNL	629	FEL
POKER LAKE UNIT 30 BS 410H	2435	FNL	599	FEL

Well Site Locations

The results of the Poker Lake Unit 30 Big Sinks Development Program will develop economic quantities of oil and gas in the 'Poker Lake Unit 30 Big Sinks' area 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.

Surface Use Plan

1. **Existing Roads**
   A. The Poker Lake Unit 30 BS area is accessed by existing U.S. Hwy 128 and Buck Jackson Road approximately 4.5 miles to the intersection with Buckthorn Road. Turn left approximately 9 miles. Road heads South, then West to intersection with Buck Jackson Rd. Turn left approximately .5 miles. The proposed road and locations are to the east. Transportation Plan identifying existing roads that will be used to access the project area is included from Frank's Surveying marked as, 'Vicinity Map.'
   B. Transportation Plan identifying existing access roads that will be used to access the project area is included from FSC, Inc. Marked as 'Topographical and Access Road Map'. We are requesting a secondary access road to each pad as well. All equipment and vehicles will be confined to the routes shown on the Vicinity Map as provided by Frank's Surveying. Maintenance of the access roads will continue until abandonment and reclamation of the well pads is completed.

C. The project is located approximately 27 miles to the town of Loving, New Mexico.

2. New or Upgraded Access Roads

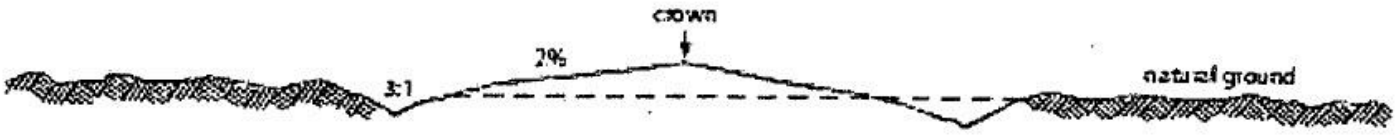
A. **New Roads**. Proposed length of road 451.37 ft and width of 30ft, requires 0.3109 acre of area.

B. **Well Pads**. There will be expansions on all 4 well pads, Pad A expansion is 167' x 550' (2.10 acres), Previously approved Pad A size is 400' x 550' (4.86 acres). Pad B expansion is 395' x 550' (5.01 acres), Previously approved Pad B size is 400' x 550' (4.91 acres). Pad C expansion is 169' x 550' (2.11 acres), Previously approved Pad C size is 400' x 550' (4.98 acres). Pad D expansion is 171' x 550' (2.15 acres), Previously approved Pad D size is 400' x 550' (4.90 acres). The well pads selected for development will determine which existing roads will be upgraded and which new roads will be built. The lease flow diagram shows the location of proposed roads that will need to be constructed to access the well pads.

C. **Anticipated Traffic**. After well completion, travel to each well site will included one lease operator truck and two oil trucks per day until the Central Tank Battery is completed. Upon completion of the Central Tank Battery, one lease operator truck will continue to travel to each well site to monitor the working order of the wells and to check well equipment for proper operation. Two oil trucks will continue to travel to the Central Tank Battery only for oil hauling. 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 Frank's Surveying 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 slopes. The driving surface will be made of 6" 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**: Not significant.

M. **Topsoil**. Approximately 6 inches of topsoil (root zone) will be stripped from the proposed 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. 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.

5. Location of Proposed Production Facilities

A. **Production Facilities**. No additional facilities are required for the Poker Lake Unit 30 BS wells from the original EA. Original EA was approved in 2018 with facility information. No additional surface distribution is required or anticipated.

B. **Flowlines**. No additional flowlines are required for the Poker Lake Unit 30 BS wells from the original EA. Original EA was approved in 2018 with flowline information. No additional surface distribution is required or anticipated.

C. **Gas Pipeline**. No additional pipelines are required for the Poker Lake Unit 30 BS wells from the original EA. Original EA was approved in 2018 with MSO tie-in information. No additional surface distribution is required or anticipated.

D. **Disposal Facilities**. Produced water will be hauled from location to a commercial disposal facility as needed. Once wells are drilled and completed, a 3160-5 sundry notification will be submitted to BLM.

E. **Flare**. No additional flares are required for the Poker Lake Unit 30 BS wells from the original EA. Original EA was approved in 2018 with Flare information. No additional surface distribution is required or anticipated.

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 'shale green' that reduce the visual impacts of the built environment.

G. **Containment Berms**. Containment berms will be constructed completely around any production facilities designed to hold fluids. The containment berms will be constructed of compacted subsoil, be sufficiently impervious, hold 1.5 times the capacity of the largest tank and away from cut or fill areas.

H. **Electrical**. No additional electrical are required for the Poker Lake Unit 30 BS wells from the original EA. Original EA was approved in 2018 with OHE information. No additional surface distribution is required or anticipated.

6. Location and Types of Water Supply

The well will be drilled using a combination of water mud systems as outlined in the Drilling Program. The water will be obtained from a 3rd party vendor and hauled to the anticipated pit in Section 7 by transport truck using the existing and proposed roads depicted in the attached exhibits. No water well will be drilled on the location.

Water for drilling, completion and dust control will be purchased from the following company:

Texas Pacific Water Resources

Water for drilling, completion and dust control will be supplied by Texas Pacific Water Resources for sale to XTO Permian Operating, LLC from Section 27, T25S-R30E, Eddy County, New Mexico. In the event that Texas Pacific Water Resources does not have the appropriate water for XTO at time of drilling and completion, then XTO water will come from Intrepid Potash Company with the location of the water being in Section 6, T25S-R29E, Eddy County, New Mexico.

Anticipated water usage for drilling includes an estimated 35,000 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 flowlines will be permitted via ROW approval letter and proper grants as-needed based on drilling and completion schedules as needed. Well completion is expected to require approximately 300,000 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.

7. Construction Activities

A. 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 as a result of these activities.

B. 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. All roads and well pads will be constructed of 6" rolled and compacted caliche.

C. Anticipated Caliche Locations:

a. Pit 1: Federal Caliche Pit, Section 17-T25S-R30E NESW

b. Pit 2: Federal Caliche Pit, Section 34-T25S-R29E SWSW

8. 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 during completion will be held temporarily in steel tanks and then taken to a NMOCD approved commercial disposal facility. Oil produced during operations will be stored in tanks until sold.
- **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 Operator, LLC and its contractors will comply with all applicable Federal, State and local laws and regulations, existing or hereafter enacted promulgated, with regard to 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.

9. Well Site Layout

A. **Rig Plat Diagrams**: There are 4 multi-well pads in the Poker Lake Unit 30 Big Sinks lease anticipated. 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. Well site layouts for all pads are attached. From West to East:

1. Pad A is a 10-well pad expected to be 500'x 550'.
2. Pad B is a 15-well pad expected to be 710'x 550'.
3. Pad C is a 10-well pad expected to be 500'x 550'.
4. Pad D is a 10-well pad expected to be 500'x 550'.

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.

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

1. Pad A has a V-Door Orientation of West.
2. Pad B has a V-Door Orientation of West.
3. Pad C has a V-Door Orientation of West.
4. Pad D has a V-Door Orientation of West.

C. A 600' x 600' area has been staked and flagged around each well pad. A plat for the well has been attached.

D. 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 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

A self-sustaining, vigorous, diverse, native (or otherwise approved) plan community will be established on the site with a density sufficient to control erosion and invasion by non-native plants and to re-establish wildlife habitat or forage production. At a minimum, the established plant community will consist of species included in the seed mix and/or desirable species occurring in the surrounding natural vegetation.

Erosion features are equal to or less than surrounding area and erosion control is sufficient so that water naturally infiltrates into the soil and gullying, headcutting, slumping, and deep or excessive rills (greater than 3 inches) are not observed.

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

A. Within the Poker Lake Unit 30 Big Sinks project area: 100% of the surface is under the administrative jurisdiction of the Bureau of Land Management.
B. The surface is multiple-use with the primary uses of the region for grazing and for the production of oil and gas.

12. Other Information

Changes from Notice of Staking / Onsite Surveying

- **Well Sites**. Well pad locations have been staked. Surveys of the proposed access roads and well pad locations have been completed by Frank Surveying, a registered professional land surveyor. Center stake surveys with access roads have been completed on State and Federal lands with Zane Kirsh, Bureau of Land Management Natural Resource Specialist in attendance.

- **Cultural Resources – Archaeology**: A payment into the PA was previously made for these projects. We will make another payment on the expansion of the pads along with eh access roads.

- **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

Operator's Representatives:

The XTO Permian Operating, LLC representatives for ensuring compliance of the surface use plan are listed below:

Surface:
Robert Bartels
Construction Execution Planner
XTO Energy, Inc
3104 E. Greene St
Carlsbad, NM 88220
406-478-3617 (Mobile)

Onsite: June 9, 2022 with Zane Kirsch/Ben Katchner with Bureau of Land Management Natural Resource Specialist.

AFMSS

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

PWD Data Report

10/07/2024

APD ID: 10400094891 **Submission Date:** 09/29/2023

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 30 BS **Well Number:** 310H

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):**

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 30 BS **Well Number:** 310H

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:**

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):

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

State

Unlined Produced Water Pit Estimated

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

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 30 BS **Well Number:** 310H

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):**

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):**

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:

Section 6 -

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

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

Other PWD discharge volume (bbl/day):

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 30 BS **Well Number:** 310H

Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 411708
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
tsebastian	Cement is required to circulate on both surface and intermediate1 strings of casing.	12/13/2024
tsebastian	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	12/13/2024
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	1/6/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	1/6/2025
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.	1/6/2025
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.	1/6/2025