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

Sundry Print Report

11/06/2023

Well Name: POKER LAKE UNIT 13-24 PC

Well Location: T24S / R29E / SEC 13 / SWNE / 32.218178 / -103.936435

County or Parish/State: EDDY / NM

Well Number: 106Y

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMNM005912, NMNM05912

Unit or CA Name:

Unit or CA Number: NMNM71016X

US Well Number: 3001553559

Well Status: Plugged and Abandoned

Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2757428

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 10/27/2023

Time Sundry Submitted: 03:55

Date proposed operation will begin: 10/27/2023

Procedure Description: ** Skid Original Wellbore, and Surface Hole Location Change XTO Energy, Inc requests permission to skid the original wellbore of the Poker Lake Unit 13-24 PC 106Y (plugged well) and to replace it with a new well skid original wellbore of the Poker Lake Unit 13-24 PC 106H. Original Wellbore of the Poker Lake Unit 13-24 PC 106Y, from 2459'FNL & 2310'FEL, LAT 32.21805663, LONG -103.9369702 to New Wellbore: Poker Lake Unit 13-24 PC 106H 2367'FSL & 1986'FEL, LAT 32.218054, LONG -103.936485. No Additional Surface Disturbance Attachments: From 3160-3 C102 Drilling Program Directional Plan Well Site Layout Casing Specs Sheet

NOI Attachments

Procedure Description

PLU_13_24_PC_NEW_106H_Sundry_Attachments_v3_20231102222059.pdf

Well Name: POKER LAKE UNIT 13-24 PC

Well Location: T24S / R29E / SEC 13 / SWNE / 32.218178 / -103.936435

County or Parish/State: EDDY / NM

Well Number: 106Y

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMNM005912, NMNM05912

Unit or CA Name:

Unit or CA Number: NMNM71016X

US Well Number: 3001553559

Well Status: Plugged and Abandoned

Operator: XTO PERMIAN OPERATING LLC

Conditions of Approval

Specialist Review

PLU_13_24_PC_Batch_Wells_Sundries_COA_20231106051300.pdf

Authorized

PLU_13_24_PC_NEW_106H_Sundry_3160_3_signed_20231106142658.pdf

Operator

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

Operator Electronic Signature: CASSIE EVANS

Signed on: NOV 02, 2023 01:42 PM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Analyst

Street Address: 6401 Holiday Hill Road, Bldg 5

City: Midland **State:** TX

Phone: (432) 218-3671

Email address: CASSIE.EVANS@EXXONMOBIL.COM

Field

Representative Name:

Street Address:

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

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 11/06/2023

Signature: Chris Walls

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No. NMNM05912

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No. NMNM71016X

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

8. Well Name and No. POKER LAKE UNIT 13-24 PC/106H

2. Name of Operator XTO PERMIAN OPERATING LLC

9. API Well No.

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

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

10. Field and Pool or Exploratory Area PURPLE SAGE;/Wolfcamp

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)* SEC 13/T24S/R29E/NMP

11. Country or Parish, State EDDY/NM

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

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

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

** Skid Original Wellbore, and Surface Hole Location Change
XTO Energy, Inc requests permission to skid the original wellbore of the Poker Lake Unit 13-24 PC 106Y (plugged well) and to replace it with a new well skid original wellbore of the Poker Lake Unit 13-24 PC 106H.
Original Wellbore of the Poker Lake Unit 13-24 PC 106Y, from 2459FNL & 2310FEL, LAT 32.21805663, LONG -103.9369702 to New Wellbore: Poker Lake Unit 13-24 PC 106H 2367FSL & 1986FEL, LAT 32.218054, LONG -103.936485.
No Additional Surface Disturbance

Attachments:
From 3160-3
C102
Drilling Program
Directional Plan
Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)* CASSIE EVANS / Ph: (432) 218-3671

Title Regulatory Analyst

Signature (Electronic Submission)

Date 11/02/2023

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved

Title Petroleum Engineer

Date 11/06/2023

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

Office CARLSBAD

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

Additional Information

Additional Remarks

Well Site Layout

Casing Specs Sheet

Location of Well

0. SHL: SWNE / 2459 FNL / 2310 FEL / TWSP: 24S / RANGE: 29E / SECTION: 13 / LAT: 32.218178 / LONG: -103.936435 (TVD: 0 feet, MD: 0 feet)

PPP: NWSE / 2740 FNL / 1650 FEL / TWSP: 24S / RANGE: 29E / SECTION: 13 / LAT: 32.217276 / LONG: -103.934837 (TVD: 10424 feet, MD: 10775 feet)

BHL: SWSE / 2367 FSL / 1986 FEL / TWSP: 24S / RANGE: 29E / SECTION: 24 / LAT: 32.196199 / LONG: -103.93481 (TVD: 10424 feet, MD: 18443 feet)

Form 3160-3
(August 2007)

FORM APPROVED
OMB No. 1004-0137
Expires July 31, 2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
NMNM05912

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☑ DRILL ☐ REENTER

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

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

8. Lease Name and Well No.
Poker Lake Unit 13-24 PC 106H

2. Name of Operator XTO Energy, Inc.

9. API Well No.

3a. Address 6401 Holiday Hill Road, Bldg 5
Midland, Texas 79701

3b. Phone No. *(include area code)*
970-769-6048

10. Field and Pool, or Exploratory
Purple Sage; Wolfcamp

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface SWNE / 2459 FNL / 2160 FEL / LAT 32.218054 / LONG -103.936485
At proposed prod. zone LOT 36 / 50 FSL / 1320 FEL / LAT 32.123039 / LONG -103.967997

11. Sec., T. R. M. or Blk. and Survey or Area
SEC 13 / T24S / R29E / 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)
2459 feet

16. No. of acres in lease

17. Spacing Unit dedicated to this well
640

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

19. Proposed Depth
10404 feet / 20677 feet

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

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3094 feet

22. Approximate date work will start*
10/27/23

23. Estimated duration
90 Days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

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 required by the BLM.

25. Signature Cassie Evans
Name *(Printed/Typed)* Cassie Evans
Date 10/17/23

Title
Regulatory Coordinator

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.

(Continued on page 2)

*(Instructions on page 2)

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 1: 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 well, 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 directionally 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.

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 well 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 will 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 collects this information to allow 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 Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

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
30-015	98220	Purple Sage;Wolfcamp

[4] Property Code	[5] Property Name	[6] Well Number
	POKER LAKE UNIT 13-24 PC	106H

[7] OGRID No.	[8] Operator Name	[9] Elevation
373075	XTO PERMIAN OPERATING, LLC	3,094'

[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	13	24 S	29 E		2,459	NORTH	2,160	EAST	EDDY

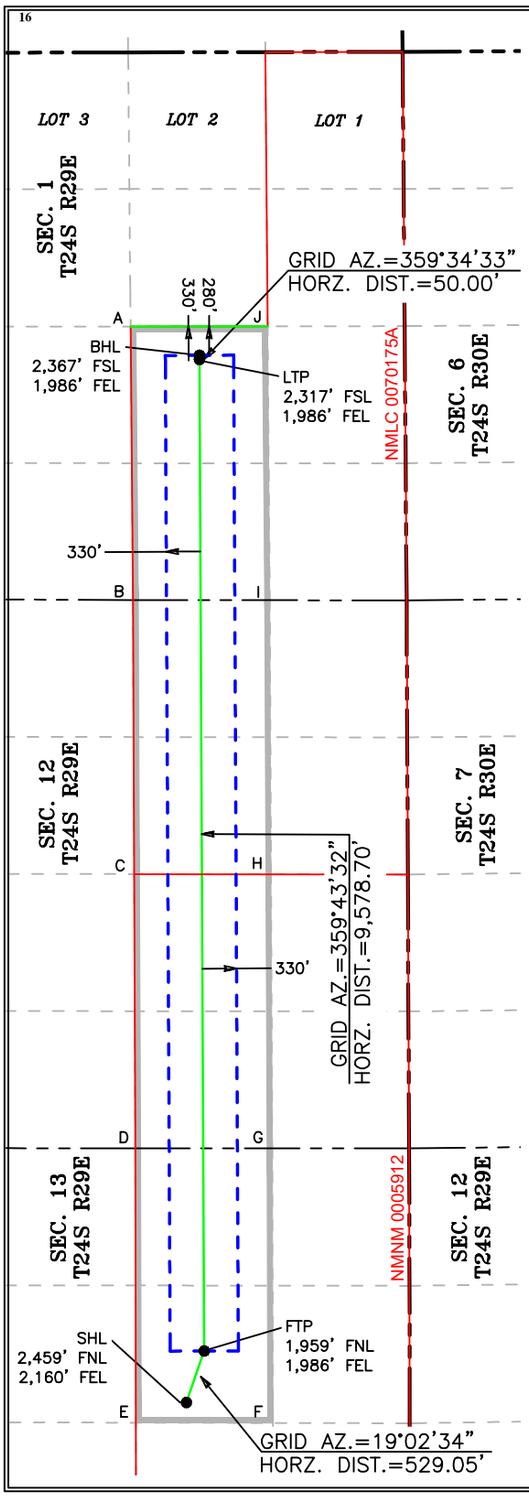
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	1	24 S	29 E		2,367	SOUTH	1,986	EAST	EDDY

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
640			

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.

16



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

SHL (NAD83 NME)		LTP (NAD83 NME)	
Y =	443,288.7	Y =	453,367.4
X =	664,064.3	X =	664,191.0
LAT. =	32.218054 °N	LAT. =	32.245758 °N
LONG. =	103.936485 °W	LONG. =	103.935954 °W
FTP (NAD83 NME)		**BHL (NAD83 NME)**	
Y =	443,788.8	Y =	453,417.4
X =	664,236.9	X =	664,190.6
LAT. =	32.219427 °N	LAT. =	32.245895 °N
LONG. =	103.935920 °W	LONG. =	103.935955 °W

CORNER COORDINATES (NAD83 NME)					
A - Y =	453,696.5	N ,	X =	663,524.5	E
B - Y =	451,051.0	N ,	X =	663,547.9	E
C - Y =	448,399.9	N ,	X =	663,559.1	E
D - Y =	445,748.2	N ,	X =	663,570.2	E
E - Y =	443,093.9	N ,	X =	663,576.0	E
F - Y =	443,091.0	N ,	X =	664,900.3	E
G - Y =	445,747.4	N ,	X =	664,894.3	E
H - Y =	448,398.4	N ,	X =	664,882.2	E
I - Y =	451,048.8	N ,	X =	664,870.9	E
J - Y =	453,698.2	N ,	X =	664,849.6	E

SHL (NAD27 NME)		LTP (NAD27 NME)	
Y =	443,229.3	Y =	453,307.7
X =	622,880.8	X =	623,007.8
LAT. =	32.217930 °N	LAT. =	32.245634 °N
LONG. =	103.935996 °W	LONG. =	103.935464 °W
FTP (NAD27 NME)		**BHL (NAD27 NME)**	
Y =	443,729.4	Y =	453,357.7
X =	623,053.4	X =	623,007.5
LAT. =	32.219303 °N	LAT. =	32.245771 °N
LONG. =	103.935431 °W	LONG. =	103.935465 °W

CORNER COORDINATES (NAD27 NME)					
A - Y =	453,636.9	N ,	X =	622,341.4	E
B - Y =	450,991.4	N ,	X =	622,364.7	E
C - Y =	448,340.4	N ,	X =	622,375.8	E
D - Y =	445,688.8	N ,	X =	622,386.8	E
E - Y =	443,034.6	N ,	X =	622,392.5	E
F - Y =	443,031.7	N ,	X =	623,716.8	E
G - Y =	445,687.9	N ,	X =	623,710.9	E
H - Y =	448,338.9	N ,	X =	623,698.9	E
I - Y =	450,989.3	N ,	X =	623,687.7	E
J - Y =	453,638.6	N ,	X =	623,666.4	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.

Cassie Evans 10/16/23
Signature Date

Cassie Evans
Printed Name

cassie.evans@exxonmobil.com
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.

10-12-2023
Date of Survey

KC/LM 2023060311

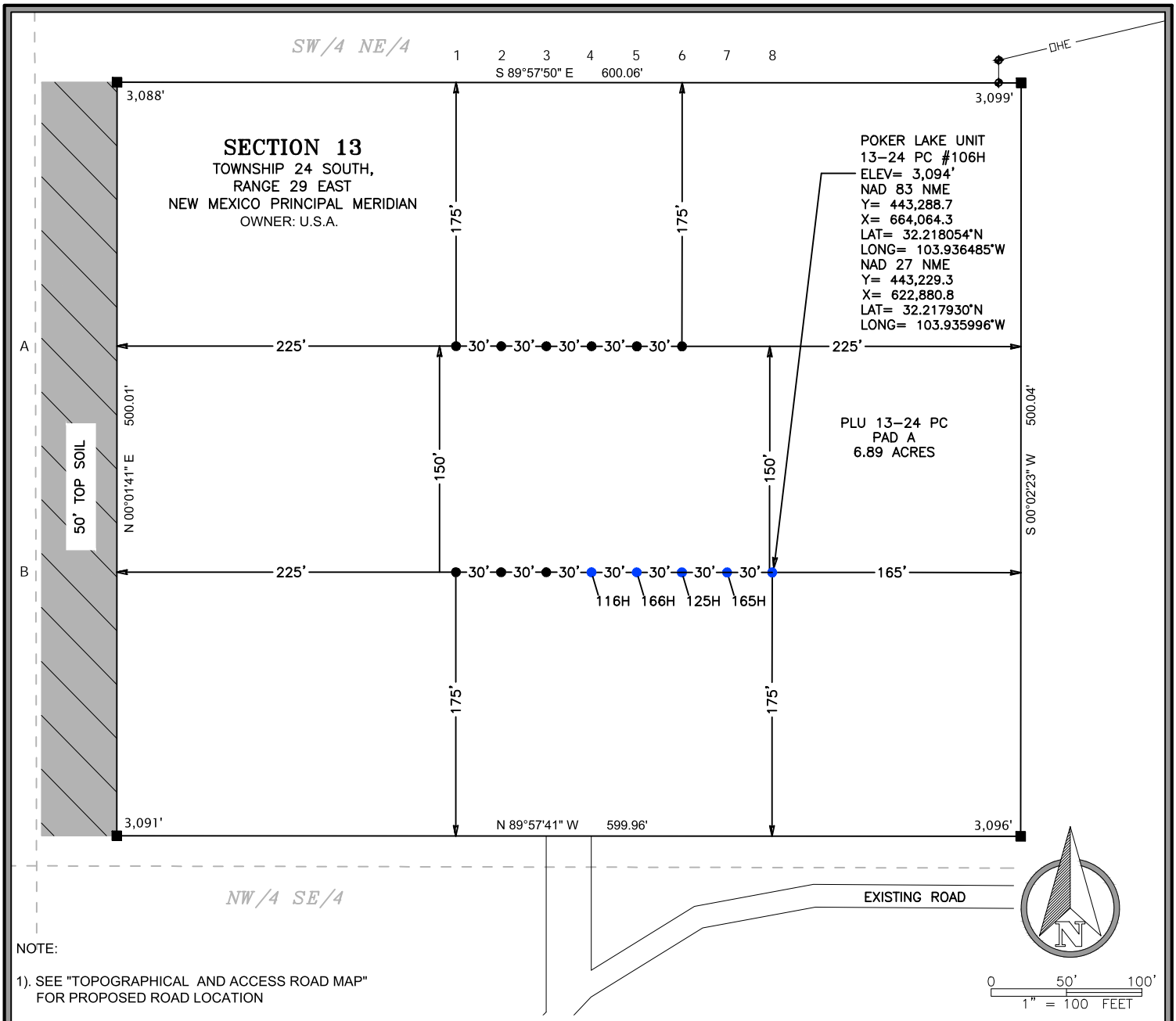
Signatue and Seal of Professional Surveyor:

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. 18 OCT 2023

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

TIM C. PAPPAS NEW MEXICO 21209 PROFESSIONAL SURVEYOR

TIM C. PAPPAS 21209
Certificate Number



NOTE:

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

DIRECTIONS TO THIS LOCATION:

FROM THE INTERSECTION OF MCDONALD ROAD AND LEASE ROAD TURN LEFT (WEST) AND GO 0.10 MILES. TURN RIGHT (NORTH) ONTO LEASE ROAD AND GO APPROX. 0.20 MILES. TURN LEFT (NORTH) AT THE "Y" AND GO APPROX. 0.40 MILES. TURN RIGHT (EAST) ONTO LEASE ROAD AND GO APPROX. 0.60 MILES. TURN LEFT (NORTHWEST) AT THE "Y" AND GO APPROX. 0.50 MILES. TURN RIGHT (NORTHEAST) AND GO APPROX. 0.50 MILES. TURN RIGHT (EAST) AT THE "Y" AND DRIVE 0.90 MILES. CONTINUE ON LEASE ROAD .12 MILES AND LOCATION IS TO THE NORTH.

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.

13 OCT 2023

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

TIM C. PAPPAS NEW MEXICO 21209 PROFESSIONAL SURVEYOR

LEGEND

- EXISTING PAD
- OHE EXISTING ELECTRIC LINE
- EXISTING ACCESS RD.
- POWER POLE
- TBD WELL
- SLOTTED WELL

XTO PERMIAN OPERATING, INC.

WELL SITE PLAN
PAD A

POKER LAKE UNIT 13-24 PC 106H
LOCATED 2,459 FEET FROM THE NORTH LINE AND 2,160 FEET FROM THE EAST LINE OF SECTION 13 TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, NEW MEXICO

DATE:	10-12-2023	PROJECT NO:	2023060311
DRAWN BY:	CF	SCALE:	1" = 100'
CHECKED BY:	CH	SHEET:	1 OF 1
FIELD CREW:	RE	REVISION:	0

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

XTO Energy Inc.
Poker Lake Unit 13-24 PC 106H
Projected TD: 20677' MD / 10404' TVD
SHL: 2459' FNL & 2160' FEL , Section 13, T24S, R29E
BHL: 2367' FSL & 1986' FEL , Section 1, T24S, R29E
Eddy County, NM

1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	288'	Water
Top of Salt	525'	Water
Base of Salt	3100'	Water
Delaware	3305'	Water
Brushy Canyon	5764'	Water/Oil/Gas
Bone Spring	7063'	Water
1st Bone Spring	7920'	Water/Oil/Gas
2nd Bone Spring	8386'	Water/Oil/Gas
3rd Bone Spring	9180'	Water/Oil/Gas
Wolfcamp	10347'	Water/Oil/Gas
Wolfcamp X	10379'	Water/Oil/Gas
Wolfcamp Y	10443'	Water/Oil/Gas
Target/Land Curve	10404'	Water/Oil/Gas

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

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 13.375 inch casing @ 474.73' (50' above the salt) and circulating cement back to surface. The intermediate will isolate from the top of salt down to the next casing seat by setting 7.625 inch casing at 9643.5' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 20677 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 9343.5 feet).

In the event of wellbore instability, XTO is submitting a secondary 4 string design to run an additona casing string as a

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 474.73'	13.375	54.5	J-55	BTC	New	18.59	5.45	35.13
12.25	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.58	2.52	1.95
12.25	4000' – 9643.5'	7.625	29.7	HC L-80	Flush Joint	New	1.88	1.91	2.42
6.75	0' – 9543.5'	5.5	23	RY P-110	Semi-Premium	New	1.45	2.66	2.05
6.75	9543.5' - 20677'	5.5	23	RY P-110	Semi-Flush	New	1.45	2.44	2.16

· XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing per this Sundry
· XTO requests to not utilize centralizers in the curve and lateral
· 7.625 Collapse analyzed using 50% evacuation based on regional experience.
· 5.5 Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35
· Test on Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less
· XTO requests the option to use 5" BTC Float equipment for the the production casing

Wellhead:

Permanent Wellhead – Multibowl System

A. Starting Head: 13-5/8” 10M top flange x 13-3/8” bottom

B. Tubing Head: 13-5/8” 10M bottom flange x 7-1/16” 15M top flange

- Wellhead will be installed by manufacturer’s representatives.
- Manufacturer will monitor welding process to ensure appropriate temperature of seal.
- Operator will test the 7-5/8" casing per BLM Onshore Order 2
- Wellhead Manufacturer representative will not be present for BOP test plug installation

4. Cement Program

Surface Casing: 13.375, 54.5 New BTC, J-55 casing to be set at +/- 474.73'

Tail: 480 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
Top of Cement: Surface
Compressives: 12-hr = 900 psi 24 hr = 1500 psi

2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 9643.5'
1st Stage
Optional Lead: 1560 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)
TOC: Surface
Tail: 1800 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
TOC: Brushy Canyon @ 5763.53
Compressives: 12-hr = 900 psi 24 hr = 1150 psi

2nd Stage
Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft3/sx, 9.61 gal/sx water)
Tail: 3250 sxs Class C (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)
Top of Cement: 0
Compressives: 12-hr = 900 psi 24 hr = 1150 psi

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (5763.53') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

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

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

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

Production Casing: 5.5, 23 New Semi-Flush, RY P-110 casing to be set at +/- 20677'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 9343.5 feet
Tail: 770 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 9843.5 feet
Compressives: 12-hr = 800 psi 24 hr = 1500 psi

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.

5. Pressure Control Equipment

Once the permanent WH is installed on the 13.375 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 5M Double Ram BOP. MASP should not exceed 3662 psi. 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).

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 13.375, 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nippling up on the 7.625, the BOP will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

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 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.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 474.73'	17.5	FW/Native	8.4-8.9	35-40	NC
474.73' - 9643.5'	12.25	FW / Cut Brine / Direct Emulsion / WBM	10.2-10.7	30-32	NC
9643.5' - 20677'	6.75	OBM	11-11.5	50-60	NC - 20

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

Spud with fresh water/native mud. Drill out from under 9-5/8" surface casing with brine solution. A 9.7 ppg - 10.2 ppg cut brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

7. Auxiliary Well Control and Monitoring Equipment

A. A Kelly cock will be in the drill string at all times.
B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
C. H2S monitors will be on location when drilling below the 13.375 casing.

8. Logging, Coring and Testing Program

Mud Logger: Mud Logging Unit (2 man) below intermediate casing.

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 170 to 190 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 5951 psi.

10. Anticipated Starting Date and Duration of Operations

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

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

XTO Energy Inc.
Poker Lake Unit 13-24 PC 106H (Secondary Design)
Projected TD: 20677' MD / 10404' TVD
SHL: 2459' FNL & 2160' FEL , Section 13, T24S, R29E
BHL: 2367' FSL & 1986' FEL , Section 1, T24S, R29E
Eddy County, NM

1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	288'	Water
Top of Salt	525'	Water
Base of Salt	3100'	Water
Delaware	3305'	Water
Brushy Canyon	5764'	Water/Oil/Gas
Bone Spring	7063'	Water
1st Bone Spring Ss	7920'	Water/Oil/Gas
2nd Bone Spring Ss	8386'	Water/Oil/Gas
3rd Bone Spring Sh	9180'	Water/Oil/Gas
Wolfcamp	10347'	Water/Oil/Gas
Wolfcamp X	10379'	Water/Oil/Gas
Wolfcamp Y	10443'	Water/Oil/Gas
Target/Land Curve	10404'	Water/Oil/Gas

Rows hidden for unused formations

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

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 13.375 inch casing @ 475' (50' above the salt) and circulating cement back to surface. The salt will be isolated by setting 9.625 inch casing at 4261' and circulating cement to surface. The second intermediate will be 7.625 inch casing at 9860' and cementing to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 20677 MD/TD and 5.5 inch production casing will be set at TD and cemented back up to 2nd intermediate (estimated TOC 9360 feet).

This secondary 4 string design is being submitted as a contingency to Poker Lake Unit 13-24 PC 106H primary design.

3. Casing Design

Hole Size	MD	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 475'	13.375	54.5	J-55	BTC	New	2.07	5.45	35.11
12.25	0' – 4261'	9.625	40	J-55	BTC	New	1.46	2.05	3.70
8.75	0' – 4361'	7.625	29.7	RY P-110	Flush Joint	New	1.99	2.48	1.91
8.75	4361' – 9860'	7.625	29.7	HC L-80	Flush Joint	New	1.45	2.84	2.49
6.75	0' – 9760'	5.5	23	RY P-110	Semi-Premium	New	1.45	2.20	2.23
6.75	9760' - 20677'	5.5	23	RY P-110	Semi-Flush	New	1.45	2.07	6.89

· Production casing meets the clearance requiremenets as tapered string crosses over before encountering the intermediate shoe, per Onshore Order 2.3.B.1
· XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface and intermediate 1 casing per this Sundry
· XTO requests to not utilize centralizers in the curve and lateral
· 9.625 Collapse analyzed using 50% evacuation based on regional experience.
· 7.625 Collapse analyzed using 50% evacuation based on regional experience.
· 5.5 Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35
· Test on 2M annular & Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less
· XTO requests the option to use 5" BTC Float equipment for the the production casing

Wellhead:

Permanent Wellhead – Multibowl System
A. Starting Head: 13-5/8" 10M top flange x 13-3/8" bottom
B. Tubing Head: 13-5/8" 10M bottom flange x 7-1/16" 15M top flange
· Wellhead will be installed by manufacturer's representatives.
· Manufacturer will monitor welding process to ensure appropriate temperature of seal.
· Operator will test the 7-5/8" casing per BLM Onshore Order 2
· Wellhead Manufacturer representative will not be present for BOP test plug installation

Check casing size here

4. Cement Program

Surface Casing: 13.375, 54.5 New BTC, J-55 casing to be set at +/- 475'

Tail: 480 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
Top of Cement: Surface
Compressives: 12-hr = 250 psi 24 hr = 500 psi

1st Intermediate Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 4261'

Lead: 1780 sxs Class C (mixed at 12.9 ppg, 1.39 ft3/sx, 10.13 gal/sx water)
Tail: 130 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
Top of Cement: Surface
Compressives: 12-hr = 900 psi 24 hr = 1500 psi

2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 9860' DV Tool can be hidden
1st Stage
Optional Lead: 90 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)
TOC: 4061
Tail: 380 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
TOC: Brushy Canyon @ 5764
Compressives: 12-hr = 900 psi 24 hr = 1150 psi

2nd Stage
Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft3/sx, 9.61 gal/sx water)
Tail: 460 sxs Class C (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)
Top of Cement: 0
Compressives: 12-hr = 900 psi 24 hr = 1150 psi

Bradenhead squeeze hidden if not applicable

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 (5764') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

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

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

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

Production Casing: 5.5, 23 New Semi-Flush, RY P-110 casing to be set at +/- 20677'

Lead: 10 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 9360 feet
Tail: 770 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 9843.5 feet
Compressives: 12-hr = 1375 psi 24 hr = 2285 psi

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.

5. Pressure Control Equipment

Temporary wellhead/diverter hidden if not needed

Check casing sizes here

Once the permanent WH is installed on the 13.375 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 5M Double Ram BOP. MASP should not exceed 4744 psi. 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).

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 13.375, 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nippling up on the 7.625, the BOP will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

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 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.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 475'	17.5	FW/Native	8.4-8.9	35-40	NC
475' - 4261'	12.25	Brine	10.2-10.7	30-32	NC
4261' to 9860'	8.75	BDE/OBM or FW/Brine/WBM	9.5-10	30-32	NC
9860' to 20677'	6.75	OBM	13-13.5	50-60	NC - 20

Check properties

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

Spud with fresh water/native mud. Drill out from under 13-3/8" surface casing with brine solution. A 10.0 ppg -10.5 ppg brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

Double check casing sizes in this statement

7. Auxiliary Well Control and Monitoring Equipment

A. A Kelly cock will be in the drill string at all times.
B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
C. H2S monitors will be on location when drilling below the 13.375 casing.

8. Logging, Coring and Testing Program

Mud Logger: Mud Logging Unit (2 man) below intermediate casing.

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 170 to 190 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 7033 psi.

10. Anticipated Starting Date and Duration of Operations

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

ROC

HP 532/547/549/552 - Eddy County, NM (NAD 27 NME)
(HP552) - Poker Lake Unit 13-24 Pierce Canyon
New SHL for 106H

OH

Plan: Plan 1

Standard Planning Report

11 October, 2023

ExxonMobil
Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well New SHL for 106H
Company:	ROC	**TVD Reference:**	RKB30' @ 3124.0usft (HP552)
Project:	HP 532/547/549/552 - Eddy County, NM (NAD 27 NME)	**MD Reference:**	RKB30' @ 3124.0usft (HP552)
Site:	(HP552) - Poker Lake Unit 13-24 Pierce Canyon	**North Reference:**	Grid
Well:	New SHL for 106H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Project	HP 532/547/549/552 - Eddy County, NM (NAD 27 NME)		
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	(HP552) - Poker Lake Unit 13-24 Pierce Canyon				
Site Position:		**Northing:**	443,229.66 usft	**Latitude:**	32° 13' 4.559 N
From:	Map	**Easting:**	622,670.59 usft	**Longitude:**	103° 56' 12.031 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well	New SHL for 106H					
Well Position	**+N/-S**	0.0 usft	**Northing:**	443,229.67 usft	**Latitude:**	32° 13' 4.552 N
	+E/-W	0.0 usft	**Easting:**	622,880.36 usft	**Longitude:**	103° 56' 9.589 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,094.0 usft
Grid Convergence:		0.21 °				

Wellbore	OH				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2020	10/10/2023	6.44	59.76	47,214.20260660

Design	Plan 1				
Audit Notes:					
Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0
Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**	
	0.0	0.0	0.0	359.73	

Plan Survey Tool Program **Date** 10/11/2023

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	20,677.3	Plan 1 (OH)	XOMR2_OWSG MWD+IFR1+ OWSG MWD + IFR1 + Multi-St	

ExxonMobil
Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well New SHL for 106H
Company:	ROC	**TVD Reference:**	RKB30' @ 3124.0usft (HP552)
Project:	HP 532/547/549/552 - Eddy County, NM (NAD 27 NME)	**MD Reference:**	RKB30' @ 3124.0usft (HP552)
Site:	(HP552) - Poker Lake Unit 13-24 Pierce Canyon	**North Reference:**	Grid
Well:	New SHL for 106H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.00	0.00	0.00	0.00	
900.0	4.00	200.00	899.8	-6.6	-2.4	2.00	2.00	0.00	200.00	
5,900.0	4.00	200.00	5,887.7	-334.3	-121.7	0.00	0.00	0.00	0.00	
6,100.0	0.00	0.00	6,087.5	-340.9	-124.1	2.00	-2.00	80.00	180.00	
9,843.5	0.00	0.00	9,831.0	-340.9	-124.1	0.00	0.00	0.00	0.00	
10,743.5	90.00	17.05	10,404.0	206.9	43.9	10.00	10.00	0.00	17.05	
11,609.5	90.00	359.73	10,404.0	1,060.3	169.8	2.00	0.00	-2.00	-90.00	
20,627.3	90.00	359.73	10,404.2	10,078.1	127.5	0.00	0.00	0.00	0.00	LTP 13-24 PC 106H
20,677.3	90.00	359.73	10,404.2	10,128.1	127.2	0.00	0.00	0.00	0.00	BHL 13-24 PC 106H

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Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well New SHL for 106H
Company:	ROC	**TVD Reference:**	RKB30' @ 3124.0usft (HP552)
Project:	HP 532/547/549/552 - Eddy County, NM (NAD 27 NME)	**MD Reference:**	RKB30' @ 3124.0usft (HP552)
Site:	(HP552) - Poker Lake Unit 13-24 Pierce Canyon	**North Reference:**	Grid
Well:	New SHL for 106H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	2.00	200.00	800.0	-1.6	-0.6	-1.6	2.00	2.00	0.00
900.0	4.00	200.00	899.8	-6.6	-2.4	-6.5	2.00	2.00	0.00
1,000.0	4.00	200.00	999.6	-13.1	-4.8	-13.1	0.00	0.00	0.00
1,100.0	4.00	200.00	1,099.4	-19.7	-7.2	-19.6	0.00	0.00	0.00
1,200.0	4.00	200.00	1,199.1	-26.2	-9.5	-26.2	0.00	0.00	0.00
1,300.0	4.00	200.00	1,298.9	-32.8	-11.9	-32.7	0.00	0.00	0.00
1,400.0	4.00	200.00	1,398.6	-39.3	-14.3	-39.3	0.00	0.00	0.00
1,500.0	4.00	200.00	1,498.4	-45.9	-16.7	-45.8	0.00	0.00	0.00
1,600.0	4.00	200.00	1,598.1	-52.4	-19.1	-52.4	0.00	0.00	0.00
1,700.0	4.00	200.00	1,697.9	-59.0	-21.5	-58.9	0.00	0.00	0.00
1,800.0	4.00	200.00	1,797.6	-65.6	-23.9	-65.4	0.00	0.00	0.00
1,900.0	4.00	200.00	1,897.4	-72.1	-26.2	-72.0	0.00	0.00	0.00
2,000.0	4.00	200.00	1,997.2	-78.7	-28.6	-78.5	0.00	0.00	0.00
2,100.0	4.00	200.00	2,096.9	-85.2	-31.0	-85.1	0.00	0.00	0.00
2,200.0	4.00	200.00	2,196.7	-91.8	-33.4	-91.6	0.00	0.00	0.00
2,300.0	4.00	200.00	2,296.4	-98.3	-35.8	-98.2	0.00	0.00	0.00
2,400.0	4.00	200.00	2,396.2	-104.9	-38.2	-104.7	0.00	0.00	0.00
2,500.0	4.00	200.00	2,495.9	-111.4	-40.6	-111.2	0.00	0.00	0.00
2,600.0	4.00	200.00	2,595.7	-118.0	-42.9	-117.8	0.00	0.00	0.00
2,700.0	4.00	200.00	2,695.5	-124.5	-45.3	-124.3	0.00	0.00	0.00
2,800.0	4.00	200.00	2,795.2	-131.1	-47.7	-130.9	0.00	0.00	0.00
2,900.0	4.00	200.00	2,895.0	-137.7	-50.1	-137.4	0.00	0.00	0.00
3,000.0	4.00	200.00	2,994.7	-144.2	-52.5	-144.0	0.00	0.00	0.00
3,100.0	4.00	200.00	3,094.5	-150.8	-54.9	-150.5	0.00	0.00	0.00
3,200.0	4.00	200.00	3,194.2	-157.3	-57.3	-157.1	0.00	0.00	0.00
3,300.0	4.00	200.00	3,294.0	-163.9	-59.6	-163.6	0.00	0.00	0.00
3,400.0	4.00	200.00	3,393.7	-170.4	-62.0	-170.1	0.00	0.00	0.00
3,500.0	4.00	200.00	3,493.5	-177.0	-64.4	-176.7	0.00	0.00	0.00
3,600.0	4.00	200.00	3,593.3	-183.5	-66.8	-183.2	0.00	0.00	0.00
3,700.0	4.00	200.00	3,693.0	-190.1	-69.2	-189.8	0.00	0.00	0.00
3,800.0	4.00	200.00	3,792.8	-196.7	-71.6	-196.3	0.00	0.00	0.00
3,900.0	4.00	200.00	3,892.5	-203.2	-74.0	-202.9	0.00	0.00	0.00
4,000.0	4.00	200.00	3,992.3	-209.8	-76.3	-209.4	0.00	0.00	0.00
4,100.0	4.00	200.00	4,092.0	-216.3	-78.7	-215.9	0.00	0.00	0.00
4,200.0	4.00	200.00	4,191.8	-222.9	-81.1	-222.5	0.00	0.00	0.00
4,300.0	4.00	200.00	4,291.6	-229.4	-83.5	-229.0	0.00	0.00	0.00
4,400.0	4.00	200.00	4,391.3	-236.0	-85.9	-235.6	0.00	0.00	0.00
4,500.0	4.00	200.00	4,491.1	-242.5	-88.3	-242.1	0.00	0.00	0.00
4,600.0	4.00	200.00	4,590.8	-249.1	-90.7	-248.7	0.00	0.00	0.00
4,700.0	4.00	200.00	4,690.6	-255.6	-93.0	-255.2	0.00	0.00	0.00
4,800.0	4.00	200.00	4,790.3	-262.2	-95.4	-261.7	0.00	0.00	0.00
4,900.0	4.00	200.00	4,890.1	-268.8	-97.8	-268.3	0.00	0.00	0.00
5,000.0	4.00	200.00	4,989.9	-275.3	-100.2	-274.8	0.00	0.00	0.00
5,100.0	4.00	200.00	5,089.6	-281.9	-102.6	-281.4	0.00	0.00	0.00

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Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well New SHL for 106H
Company:	ROC	**TVD Reference:**	RKB30' @ 3124.0usft (HP552)
Project:	HP 532/547/549/552 - Eddy County, NM (NAD 27 NME)	**MD Reference:**	RKB30' @ 3124.0usft (HP552)
Site:	(HP552) - Poker Lake Unit 13-24 Pierce Canyon	**North Reference:**	Grid
Well:	New SHL for 106H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,200.0	4.00	200.00	5,189.4	-288.4	-105.0	-287.9	0.00	0.00	0.00
5,300.0	4.00	200.00	5,289.1	-295.0	-107.4	-294.5	0.00	0.00	0.00
5,400.0	4.00	200.00	5,388.9	-301.5	-109.7	-301.0	0.00	0.00	0.00
5,500.0	4.00	200.00	5,488.6	-308.1	-112.1	-307.6	0.00	0.00	0.00
5,600.0	4.00	200.00	5,588.4	-314.6	-114.5	-314.1	0.00	0.00	0.00
5,700.0	4.00	200.00	5,688.1	-321.2	-116.9	-320.6	0.00	0.00	0.00
5,800.0	4.00	200.00	5,787.9	-327.8	-119.3	-327.2	0.00	0.00	0.00
5,900.0	4.00	200.00	5,887.7	-334.3	-121.7	-333.7	0.00	0.00	0.00
6,000.0	2.00	200.00	5,987.5	-339.2	-123.5	-338.6	2.00	-2.00	0.00
6,100.0	0.00	0.00	6,087.5	-340.9	-124.1	-340.3	2.00	-2.00	160.00
6,200.0	0.00	0.00	6,187.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
6,300.0	0.00	0.00	6,287.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
6,400.0	0.00	0.00	6,387.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
6,500.0	0.00	0.00	6,487.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
6,600.0	0.00	0.00	6,587.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
6,700.0	0.00	0.00	6,687.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
6,800.0	0.00	0.00	6,787.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
6,900.0	0.00	0.00	6,887.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
7,000.0	0.00	0.00	6,987.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
7,100.0	0.00	0.00	7,087.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
7,200.0	0.00	0.00	7,187.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
7,300.0	0.00	0.00	7,287.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
7,400.0	0.00	0.00	7,387.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
7,500.0	0.00	0.00	7,487.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
7,600.0	0.00	0.00	7,587.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
7,700.0	0.00	0.00	7,687.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
7,800.0	0.00	0.00	7,787.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
7,900.0	0.00	0.00	7,887.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
8,000.0	0.00	0.00	7,987.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
8,100.0	0.00	0.00	8,087.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
8,200.0	0.00	0.00	8,187.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
8,300.0	0.00	0.00	8,287.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
8,400.0	0.00	0.00	8,387.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
8,500.0	0.00	0.00	8,487.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
8,600.0	0.00	0.00	8,587.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
8,700.0	0.00	0.00	8,687.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
8,800.0	0.00	0.00	8,787.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
8,900.0	0.00	0.00	8,887.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
9,000.0	0.00	0.00	8,987.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
9,100.0	0.00	0.00	9,087.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
9,200.0	0.00	0.00	9,187.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
9,300.0	0.00	0.00	9,287.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
9,400.0	0.00	0.00	9,387.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
9,500.0	0.00	0.00	9,487.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
9,600.0	0.00	0.00	9,587.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
9,700.0	0.00	0.00	9,687.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
9,800.0	0.00	0.00	9,787.5	-340.9	-124.1	-340.3	0.00	0.00	0.00
9,843.5	0.00	0.00	9,831.0	-340.9	-124.1	-340.3	0.00	0.00	0.00
9,900.0	5.65	17.05	9,887.4	-338.2	-123.2	-337.6	10.00	10.00	30.18
10,000.0	15.65	17.05	9,985.6	-320.6	-117.8	-320.0	10.00	10.00	0.00
10,100.0	25.65	17.05	10,079.0	-286.9	-107.5	-286.4	10.00	10.00	0.00
10,200.0	35.65	17.05	10,164.9	-238.2	-92.6	-237.8	10.00	10.00	0.00

ExxonMobil

Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well New SHL for 106H
Company:	ROC	**TVD Reference:**	RKB30' @ 3124.0usft (HP552)
Project:	HP 532/547/549/552 - Eddy County, NM (NAD 27 NME)	**MD Reference:**	RKB30' @ 3124.0usft (HP552)
Site:	(HP552) - Poker Lake Unit 13-24 Pierce Canyon	**North Reference:**	Grid
Well:	New SHL for 106H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,300.0	45.65	17.05	10,240.7	-176.0	-73.5	-175.7	10.00	10.00	0.00
10,400.0	55.65	17.05	10,304.0	-102.2	-50.9	-101.9	10.00	10.00	0.00
10,500.0	65.65	17.05	10,353.0	-18.9	-25.3	-18.8	10.00	10.00	0.00
10,600.0	75.65	17.05	10,386.1	71.1	2.3	71.1	10.00	10.00	0.00
10,700.0	85.65	17.05	10,402.3	165.4	31.2	165.2	10.00	10.00	0.00
10,743.5	90.00	17.05	10,404.0	206.9	43.9	206.7	10.00	10.00	0.00
10,800.0	90.00	15.92	10,404.0	261.1	60.0	260.8	2.00	0.00	-2.00
10,900.0	90.00	13.92	10,404.0	357.7	85.7	357.3	2.00	0.00	-2.00
11,000.0	90.00	11.92	10,404.0	455.2	108.1	454.7	2.00	0.00	-2.00
11,100.0	90.00	9.92	10,404.0	553.4	127.0	552.8	2.00	0.00	-2.00
11,200.0	90.00	7.92	10,404.0	652.1	142.5	651.5	2.00	0.00	-2.00
11,300.0	90.00	5.92	10,404.0	751.4	154.6	750.7	2.00	0.00	-2.00
11,400.0	90.00	3.92	10,404.0	851.0	163.1	850.3	2.00	0.00	-2.00
11,500.0	90.00	1.92	10,404.0	950.9	168.2	950.1	2.00	0.00	-2.00
11,600.0	90.00	359.92	10,404.0	1,050.9	169.8	1,050.1	2.00	0.00	-2.00
11,609.5	90.00	359.73	10,404.0	1,060.3	169.8	1,059.5	2.00	0.00	-2.00
11,700.0	90.00	359.73	10,404.0	1,150.9	169.4	1,150.1	0.00	0.00	0.00
11,800.0	90.00	359.73	10,404.0	1,250.9	168.9	1,250.1	0.00	0.00	0.00
11,900.0	90.00	359.73	10,404.0	1,350.9	168.4	1,350.1	0.00	0.00	0.00
12,000.0	90.00	359.73	10,404.0	1,450.9	168.0	1,450.1	0.00	0.00	0.00
12,100.0	90.00	359.73	10,404.0	1,550.9	167.5	1,550.1	0.00	0.00	0.00
12,200.0	90.00	359.73	10,404.0	1,650.9	167.0	1,650.1	0.00	0.00	0.00
12,300.0	90.00	359.73	10,404.0	1,750.9	166.6	1,750.1	0.00	0.00	0.00
12,400.0	90.00	359.73	10,404.0	1,850.9	166.1	1,850.1	0.00	0.00	0.00
12,500.0	90.00	359.73	10,404.0	1,950.9	165.6	1,950.1	0.00	0.00	0.00
12,600.0	90.00	359.73	10,404.0	2,050.9	165.2	2,050.1	0.00	0.00	0.00
12,700.0	90.00	359.73	10,404.0	2,150.9	164.7	2,150.1	0.00	0.00	0.00
12,800.0	90.00	359.73	10,404.0	2,250.9	164.2	2,250.1	0.00	0.00	0.00
12,900.0	90.00	359.73	10,404.0	2,350.9	163.7	2,350.1	0.00	0.00	0.00
13,000.0	90.00	359.73	10,404.0	2,450.9	163.3	2,450.1	0.00	0.00	0.00
13,100.0	90.00	359.73	10,404.0	2,550.9	162.8	2,550.1	0.00	0.00	0.00
13,200.0	90.00	359.73	10,404.0	2,650.9	162.3	2,650.1	0.00	0.00	0.00
13,300.0	90.00	359.73	10,404.0	2,750.9	161.9	2,750.1	0.00	0.00	0.00
13,400.0	90.00	359.73	10,404.0	2,850.9	161.4	2,850.1	0.00	0.00	0.00
13,500.0	90.00	359.73	10,404.0	2,950.9	160.9	2,950.1	0.00	0.00	0.00
13,600.0	90.00	359.73	10,404.0	3,050.9	160.5	3,050.1	0.00	0.00	0.00
13,700.0	90.00	359.73	10,404.0	3,150.9	160.0	3,150.1	0.00	0.00	0.00
13,800.0	90.00	359.73	10,404.0	3,250.9	159.5	3,250.1	0.00	0.00	0.00
13,900.0	90.00	359.73	10,404.0	3,350.9	159.1	3,350.1	0.00	0.00	0.00
14,000.0	90.00	359.73	10,404.0	3,450.9	158.6	3,450.1	0.00	0.00	0.00
14,100.0	90.00	359.73	10,404.0	3,550.9	158.1	3,550.1	0.00	0.00	0.00
14,200.0	90.00	359.73	10,404.0	3,650.9	157.6	3,650.1	0.00	0.00	0.00
14,300.0	90.00	359.73	10,404.0	3,750.9	157.2	3,750.1	0.00	0.00	0.00
14,400.0	90.00	359.73	10,404.0	3,850.9	156.7	3,850.1	0.00	0.00	0.00
14,500.0	90.00	359.73	10,404.0	3,950.8	156.2	3,950.1	0.00	0.00	0.00
14,600.0	90.00	359.73	10,404.0	4,050.8	155.8	4,050.1	0.00	0.00	0.00
14,700.0	90.00	359.73	10,404.0	4,150.8	155.3	4,150.1	0.00	0.00	0.00
14,800.0	90.00	359.73	10,404.1	4,250.8	154.8	4,250.1	0.00	0.00	0.00
14,900.0	90.00	359.73	10,404.1	4,350.8	154.4	4,350.1	0.00	0.00	0.00
15,000.0	90.00	359.73	10,404.1	4,450.8	153.9	4,450.1	0.00	0.00	0.00
15,100.0	90.00	359.73	10,404.1	4,550.8	153.4	4,550.1	0.00	0.00	0.00
15,200.0	90.00	359.73	10,404.1	4,650.8	153.0	4,650.1	0.00	0.00	0.00

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Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well New SHL for 106H
Company:	ROC	**TVD Reference:**	RKB30' @ 3124.0usft (HP552)
Project:	HP 532/547/549/552 - Eddy County, NM (NAD 27 NME)	**MD Reference:**	RKB30' @ 3124.0usft (HP552)
Site:	(HP552) - Poker Lake Unit 13-24 Pierce Canyon	**North Reference:**	Grid
Well:	New SHL for 106H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,300.0	90.00	359.73	10,404.1	4,750.8	152.5	4,750.1	0.00	0.00	0.00
15,400.0	90.00	359.73	10,404.1	4,850.8	152.0	4,850.1	0.00	0.00	0.00
15,500.0	90.00	359.73	10,404.1	4,950.8	151.5	4,950.1	0.00	0.00	0.00
15,600.0	90.00	359.73	10,404.1	5,050.8	151.1	5,050.1	0.00	0.00	0.00
15,700.0	90.00	359.73	10,404.1	5,150.8	150.6	5,150.1	0.00	0.00	0.00
15,800.0	90.00	359.73	10,404.1	5,250.8	150.1	5,250.1	0.00	0.00	0.00
15,900.0	90.00	359.73	10,404.1	5,350.8	149.7	5,350.1	0.00	0.00	0.00
16,000.0	90.00	359.73	10,404.1	5,450.8	149.2	5,450.1	0.00	0.00	0.00
16,100.0	90.00	359.73	10,404.1	5,550.8	148.7	5,550.1	0.00	0.00	0.00
16,200.0	90.00	359.73	10,404.1	5,650.8	148.3	5,650.1	0.00	0.00	0.00
16,300.0	90.00	359.73	10,404.1	5,750.8	147.8	5,750.1	0.00	0.00	0.00
16,400.0	90.00	359.73	10,404.1	5,850.8	147.3	5,850.1	0.00	0.00	0.00
16,500.0	90.00	359.73	10,404.1	5,950.8	146.8	5,950.1	0.00	0.00	0.00
16,600.0	90.00	359.73	10,404.1	6,050.8	146.4	6,050.1	0.00	0.00	0.00
16,700.0	90.00	359.73	10,404.1	6,150.8	145.9	6,150.1	0.00	0.00	0.00
16,800.0	90.00	359.73	10,404.1	6,250.8	145.4	6,250.1	0.00	0.00	0.00
16,900.0	90.00	359.73	10,404.1	6,350.8	145.0	6,350.1	0.00	0.00	0.00
17,000.0	90.00	359.73	10,404.1	6,450.8	144.5	6,450.1	0.00	0.00	0.00
17,100.0	90.00	359.73	10,404.1	6,550.8	144.0	6,550.1	0.00	0.00	0.00
17,200.0	90.00	359.73	10,404.1	6,650.8	143.6	6,650.1	0.00	0.00	0.00
17,300.0	90.00	359.73	10,404.1	6,750.8	143.1	6,750.1	0.00	0.00	0.00
17,400.0	90.00	359.73	10,404.1	6,850.8	142.6	6,850.1	0.00	0.00	0.00
17,500.0	90.00	359.73	10,404.1	6,950.8	142.2	6,950.1	0.00	0.00	0.00
17,600.0	90.00	359.73	10,404.1	7,050.8	141.7	7,050.1	0.00	0.00	0.00
17,700.0	90.00	359.73	10,404.1	7,150.8	141.2	7,150.1	0.00	0.00	0.00
17,800.0	90.00	359.73	10,404.1	7,250.8	140.7	7,250.1	0.00	0.00	0.00
17,900.0	90.00	359.73	10,404.1	7,350.8	140.3	7,350.1	0.00	0.00	0.00
18,000.0	90.00	359.73	10,404.1	7,450.8	139.8	7,450.1	0.00	0.00	0.00
18,100.0	90.00	359.73	10,404.1	7,550.8	139.3	7,550.1	0.00	0.00	0.00
18,200.0	90.00	359.73	10,404.1	7,650.8	138.9	7,650.1	0.00	0.00	0.00
18,300.0	90.00	359.73	10,404.1	7,750.8	138.4	7,750.1	0.00	0.00	0.00
18,400.0	90.00	359.73	10,404.1	7,850.8	137.9	7,850.1	0.00	0.00	0.00
18,500.0	90.00	359.73	10,404.1	7,950.8	137.5	7,950.1	0.00	0.00	0.00
18,600.0	90.00	359.73	10,404.1	8,050.8	137.0	8,050.1	0.00	0.00	0.00
18,700.0	90.00	359.73	10,404.2	8,150.8	136.5	8,150.1	0.00	0.00	0.00
18,800.0	90.00	359.73	10,404.2	8,250.8	136.0	8,250.1	0.00	0.00	0.00
18,900.0	90.00	359.73	10,404.2	8,350.8	135.6	8,350.1	0.00	0.00	0.00
19,000.0	90.00	359.73	10,404.2	8,450.8	135.1	8,450.1	0.00	0.00	0.00
19,100.0	90.00	359.73	10,404.2	8,550.8	134.6	8,550.1	0.00	0.00	0.00
19,200.0	90.00	359.73	10,404.2	8,650.8	134.2	8,650.1	0.00	0.00	0.00
19,300.0	90.00	359.73	10,404.2	8,750.8	133.7	8,750.1	0.00	0.00	0.00
19,400.0	90.00	359.73	10,404.2	8,850.8	133.2	8,850.1	0.00	0.00	0.00
19,500.0	90.00	359.73	10,404.2	8,950.8	132.8	8,950.1	0.00	0.00	0.00
19,600.0	90.00	359.73	10,404.2	9,050.8	132.3	9,050.1	0.00	0.00	0.00
19,700.0	90.00	359.73	10,404.2	9,150.8	131.8	9,150.1	0.00	0.00	0.00
19,800.0	90.00	359.73	10,404.2	9,250.8	131.4	9,250.1	0.00	0.00	0.00
19,900.0	90.00	359.73	10,404.2	9,350.8	130.9	9,350.1	0.00	0.00	0.00
20,000.0	90.00	359.73	10,404.2	9,450.8	130.4	9,450.1	0.00	0.00	0.00
20,100.0	90.00	359.73	10,404.2	9,550.8	129.9	9,550.1	0.00	0.00	0.00
20,200.0	90.00	359.73	10,404.2	9,650.8	129.5	9,650.1	0.00	0.00	0.00
20,300.0	90.00	359.73	10,404.2	9,750.8	129.0	9,750.1	0.00	0.00	0.00
20,400.0	90.00	359.73	10,404.2	9,850.8	128.5	9,850.1	0.00	0.00	0.00

ExxonMobil
Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well New SHL for 106H
Company:	ROC	**TVD Reference:**	RKB30' @ 3124.0usft (HP552)
Project:	HP 532/547/549/552 - Eddy County, NM (NAD 27 NME)	**MD Reference:**	RKB30' @ 3124.0usft (HP552)
Site:	(HP552) - Poker Lake Unit 13-24 Pierce Canyon	**North Reference:**	Grid
Well:	New SHL for 106H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

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)
20,500.0	90.00	359.73	10,404.2	9,950.8	128.1	9,950.1	0.00	0.00	0.00
20,600.0	90.00	359.73	10,404.2	10,050.8	127.6	10,050.1	0.00	0.00	0.00
20,627.3	90.00	359.73	10,404.2	10,078.1	127.5	10,077.4	0.00	0.00	0.00
20,677.3	90.00	359.73	10,404.2	10,128.1	127.2	10,127.4	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
New SHL for 106H - plan hits target center - Rectangle (sides W20.0 H20.0 D0.0)	0.00	0.00	0.0	0.0	0.0	443,229.67	622,880.36	32° 13' 4.552 N	103° 56' 9.589 W
FTP 13-24 PC 106H - plan misses target center by 55.0usft at 11056.1usft MD (10404.0 TVD, 510.1 N, 119.1 E) - Point	0.00	0.00	10,404.2	499.7	173.1	443,729.40	623,053.43	32° 13' 9.491 N	103° 56' 7.553 W
LTP 13-24 PC 106H - plan hits target center - Rectangle (sides W100.0 H9,577.7 D0.0)	0.00	0.00	10,404.2	10,078.1	127.5	453,307.74	623,007.83	32° 14' 44.281 N	103° 56' 7.671 W
BHL 13-24 PC 106H - plan misses target center by 0.1usft at 20677.3usft MD (10404.2 TVD, 10128.1 N, 127.2 E) - Point	0.00	0.00	10,404.2	10,128.1	127.1	453,357.74	623,007.46	32° 14' 44.776 N	103° 56' 7.673 W

ExxonMobil
Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well New SHL for 106H
Company:	ROC	**TVD Reference:**	RKB30' @ 3124.0usft (HP552)
Project:	HP 532/547/549/552 - Eddy County, NM (NAD 27 NME)	**MD Reference:**	RKB30' @ 3124.0usft (HP552)
Site:	(HP552) - Poker Lake Unit 13-24 Pierce Canyon	**North Reference:**	Grid
Well:	New SHL for 106H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
287.9	287.9	Rustler		0.00	
524.7	524.7	Salado			
3,105.2	3,099.7	Base of Salt			
3,311.1	3,305.1	Delaware			
4,218.9	4,210.7	Cherry Canyon			
5,775.6	5,763.5	Brushy Canyon			
6,833.7	6,821.2	Basal Brushy Canyon			
7,075.7	7,063.2	Bone Spring			
7,200.4	7,187.9	Avalon Upper			
7,770.4	7,757.9	Avalon Lower			
7,932.8	7,920.3	1st Bone Spring Lime			
8,086.0	8,073.5	1st Bone Spring Sand			
8,398.6	8,386.0	2nd Bone Spring Lime			
8,924.3	8,911.8	2nd Bone Spring Sand			
9,192.3	9,179.8	3rd Bone Spring Lime			
9,570.0	9,557.5	Harkey Sand			
9,601.4	9,588.9	3rd Bone Spring Shale			
10,003.7	9,989.1	3rd Bone Spring Sand			
10,485.0	10,346.6	Wolfcamp			
10,574.6	10,379.2	Wolfcamp X			

Plan Annotations

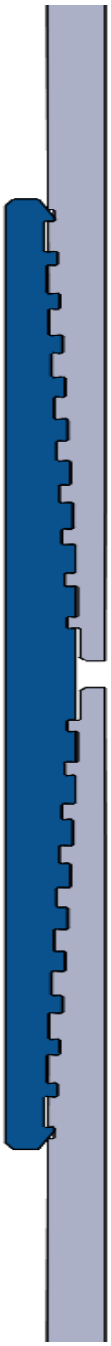
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
700.0	700.0	0.0	0.0	Start Build 2.00
900.0	899.8	-6.6	-2.4	Start 5000.0 hold at 900.0 MD
5,900.0	5,887.7	-334.3	-121.7	Start DLS 2.00 TFO 180.00
6,100.0	6,087.5	-340.9	-124.1	Start 3743.5 hold at 6100.0 MD
9,843.5	9,831.0	-340.9	-124.1	Start DLS 10.00 TFO 17.05
10,743.5	10,404.0	206.9	43.9	Start DLS 2.00 TFO -90.00
11,609.5	10,404.0	1,060.3	169.8	Start 9017.8 hold at 11609.5 MD
20,627.3	10,404.2	10,078.1	127.5	Start 50.0 hold at 20627.3 MD
20,677.3	10,404.2	10,128.1	127.2	TD at 20677.3

Generated: 4/20/2020

DRAFT

U. S. Steel Tubular Products

5.500 20.00 LB (0.361) P110 RY USS-TALON HTQ™RD5.900



	PIPE	CONNECTION	
MECHANICAL PROPERTIES			[6]
Minimum Yield Strength	**110,000**		*psi*
Maximum Yield Strength	**125,000**		*psi*
Minimum Tensile Strength	**125,000**		*psi*
DIMENSIONS			
Outside Diameter	**5.500**	**5.900**	*in.*
Wall Thickness	0.361		*in.*
Inside Diameter	4.778	4.778	*in.*
Drift - API	4.653		*in.*
Nominal Linear Weight, T&C	**20.00**		*lbs/ft*
Plain End Weight	19.83	19.83	*lbs/ft*
SECTION AREA			
Cross Sectional Area | Critical Area	5.828	5.828	*sq. in.*
Joint Efficiency		100%	% [2]
PERFORMANCE			
Minimum Collapse Pressure	11,100	11,100	*psi*
Minimum Internal Yield Pressure	12,640	12,640	*psi*
Minimum Pipe Body Yield Strength	641,000		*lbs*
Joint Strength		641,000	*lbs*
Compression Rating		641,000	*lbs*
Reference Length		21,548	*ft* [5]
Maximum Uniaxial Bend Rating		91.7	*deg/100 ft* [3]
MAKE-UP DATA			
Minimum Make-Up Torque		24,700	*ft-lbs* [4]
Maximum Make-Up Torque		27,700	*ft-lbs* [4]
Maximum Operating Torque		39,500	*ft-lbs* [4]
Make-Up Loss		5.58	*in.*

UNCONTROLLED

UNCONTROLLED

Notes:

1) Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
2) Compressive & Tensile Connection Efficiencies are calculated by dividing the connection critical area by the pipe body area.
3) Uniaxial bending rating shown is structural only.
4) Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
5) Reference length is calculated by joint strength divided by plain end weight with 1.5 safety factor.
6) Coupling must meet minimum mechanical properties of the pipe

U. S. Steel Tubular Products 1-877-893-9461
460 Wildwood Forest Dr., Suite 300S connections@uss.com
Spring, TX 77380 www.usstubular.com

U. S. Steel Tubular Products

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7.625" 29.70lbs/ft (0.375" Wall) P110 RY USS-LIBERTY FJM®

MECHANICAL PROPERTIES	Pipe	USS-LIBERTY FJM®	
Minimum Yield Strength	110,000	--	psi
Maximum Yield Strength	125,000	--	psi
Minimum Tensile Strength	125,000	--	psi
DIMENSIONS	**Pipe**	**USS-LIBERTY FJM®**	
Outside Diameter	7.625	7.625	in.
Wall Thickness	0.375	--	in.
Inside Diameter	6.875	6.789	in.
Standard Drift	6.750	6.750	in.
Alternate Drift	--	--	in.
Nominal Linear Weight, T&C	29.70	--	lbs/ft
Plain End Weight	29.06	--	lbs/ft
SECTION AREA	**Pipe**	**USS-LIBERTY FJM®**	
Critical Area	8.541	5.074	sq. in.
Joint Efficiency	--	59.4	%
PERFORMANCE	**Pipe**	**USS-LIBERTY FJM®**	
Minimum Collapse Pressure	5,350	5,350	psi
Minimum Internal Yield Pressure	9,460	9,460	psi
Minimum Pipe Body Yield Strength	940,000	--	lbs
Joint Strength	--	558,000	lbs
Compression Rating	--	558,000	lbs
Reference Length	--	12,810	ft
Maximum Uniaxial Bend Rating	--	39.3	deg/100 ft
MAKE-UP DATA	**Pipe**	**USS-LIBERTY FJM®**	
Make-Up Loss	--	3.92	in.
Minimum Make-Up Torque	--	10,800	ft-lbs
Maximum Make-Up Torque	--	15,250	ft-lbs

1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness and Specified Minimum Yield Strength (SMYS).
2. Compressive & Tensile Connection Efficiencies are calculated by dividing the connection critical area by the pipe body area.
3. Uniaxial bending rating shown is structural only, and equal to compression efficiency.
4. USS-LIBERTY FJM™ connections are optimized for each combination of OD and wall thickness and cannot be interchanged.
5. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
6. Reference length is calculated by joint strength divided by nominal plain end weight with 1.5 safety factor.
7. Connection external pressure leak resistance has been verified to 100% API pipe body collapse pressure following the guidelines of API 5C5 Cal III.

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U. S. Steel Tubular Products

13.375" 54.50lb/ft (0.380" Wall) J55 USS-CDC®

10/10/2022 1:42:03 PM

MECHANICAL PROPERTIES	Pipe	USS-CDC®		--
Minimum Yield Strength	55,000	--	psi	--
Maximum Yield Strength	80,000	--	psi	--
Minimum Tensile Strength	75,000	--	psi	--
DIMENSIONS	**Pipe**	**USS-CDC®**		**--**
Outside Diameter	13.375	14.375	in.	--
Wall Thickness	0.380	--	in.	--
Inside Diameter	12.615	12.615	in.	--
Standard Drift	12.459	12.459	in.	--
Alternate Drift	12.500	12.500	in.	--
Nominal Linear Weight, T&C	54.50	--	lb/ft	--
Plain End Weight	52.79	--	lb/ft	--
SECTION AREA	**Pipe**	**USS-CDC®**		**--**
Critical Area	15.513	15.513	sq. in.	--
Joint Efficiency	--	100.0	%	--
PERFORMANCE	**Pipe**	**USS-CDC®**		**--**
Minimum Collapse Pressure	1,130	1,130	psi	--
External Pressure Leak Resistance	--	900	psi	--
Minimum Internal Yield Pressure	2,740	2,740	psi	--
Minimum Pipe Body Yield Strength	853,000	--	lb	--
Joint Strength	--	909,000	lb	--
Compression Rating	--	545,400	lb	--
Reference Length	--	11,119	ft	--
Maximum Uniaxial Bend Rating	--	12.1	deg/100 ft	--
MAKE-UP DATA	**Pipe**	**USS-CDC®**		**--**
Make-Up Loss	--	5.31	in.	--
Minimum Make-Up Torque	--	17,000	ft-lb	--
Maximum Make-Up Torque	--	21,000	ft-lb	--
Connection Yield Torque	--	35,200	ft-lb	--

Notes

1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness and Specified Minimum Yield Strength (SMYS).
2. Uniaxial bending rating shown is structural only, and equal to compression efficiency.
3. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
4. Reference length is calculated by joint strength divided by nominal threaded and coupled weight with 1.5 safety factor.
5. Connection external pressure leak resistance has been verified to 80% API pipe body collapse pressure following the guidelines of API 5C5 Call II.

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1-877-893-9461
connections@uss.com
www.usstubular.com

U. S. Steel Tubular Products

10/10/2022 1:43:14 PM

9.625" 40.00lb/ft (0.395" Wall) J55 USS-CDC®

MECHANICAL PROPERTIES	Pipe	USS-CDC®		--
Minimum Yield Strength	55,000	--	psi	--
Maximum Yield Strength	80,000	--	psi	--
Minimum Tensile Strength	75,000	--	psi	--
DIMENSIONS	**Pipe**	**USS-CDC®**		**--**
Outside Diameter	9.625	10.625	in.	--
Wall Thickness	0.395	--	in.	--
Inside Diameter	8.835	8.835	in.	--
Standard Drift	8.679	8.679	in.	--
Alternate Drift	8.750	8.750	in.	--
Nominal Linear Weight, T&C	40.00	--	lb/ft	--
Plain End Weight	38.97	--	lb/ft	--
SECTION AREA	**Pipe**	**USS-CDC®**		**--**
Critical Area	11.454	11.454	sq. in.	--
Joint Efficiency	--	100.0	%	--
PERFORMANCE	**Pipe**	**USS-CDC®**		**--**
Minimum Collapse Pressure	2,570	2,570	psi	--
External Pressure Leak Resistance	--	2,060	psi	--
Minimum Internal Yield Pressure	3,950	3,950	psi	--
Minimum Pipe Body Yield Strength	630,000	--	lb	--
Joint Strength	--	714,000	lb	--
Compression Rating	--	428,000	lb	--
Reference Length	--	11,900	ft	--
Maximum Uniaxial Bend Rating	--	17.8	deg/100 ft	--
MAKE-UP DATA	**Pipe**	**USS-CDC®**		**--**
Make-Up Loss	--	5.31	in.	--
Minimum Make-Up Torque	--	15,000	ft-lb	--
Maximum Make-Up Torque	--	18,500	ft-lb	--
Connection Yield Torque	--	23,100	ft-lb	--

Notes

1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness and Specified Minimum Yield Strength (SMYS).
2. Uniaxial bending rating shown is structural only, and equal to compression efficiency.
3. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
4. Reference length is calculated by joint strength divided by nominal threaded and coupled weight with 1.5 safety factor.
5. Connection external pressure leak resistance has been verified to 80% API pipe body collapse pressure following the guidelines of API 5C5 Call II.

U. S. Steel Tubular Products
460 Wildwood Forest Drive, Suite 300S
Spring, Texas 77380

1-877-893-9461
connections@uss.com
www.usstubular.com

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO
LEASE NO.:	**NMNM05912**
LOCATION:	Section 13, T.24 S, R.29 E., NMPM
COUNTY:	Eddy County, New Mexico
WELL NAME & NO.:	Poker Lake Unit 13-24 PC 125H
SURFACE HOLE FOOTAGE:	2459'/N & 2220'/E
BOTTOM HOLE FOOTAGE:	2366'/S & 2316'/E

WELL NAME & NO.:	Poker Lake Unit 13-24 PC 106H
SURFACE HOLE FOOTAGE:	2459'/N & 2160'/E
BOTTOM HOLE FOOTAGE:	2367'/S & 1986'/E

WELL NAME & NO.:	Poker Lake Unit 13-24 PC 165H
SURFACE HOLE FOOTAGE:	2459'/N & 2190'/E
BOTTOM HOLE FOOTAGE:	2367'/S & 2151'/E

*Changes approved through engineering via **Sundries 2757429, 2757428, and 2758985_** on _11-5-2023_____. Any previous COAs not addressed within the updated COAs still apply.*

COA

H_2S	○ Yes	◉ No		
Potash / WIPP	◉ None	○ Secretary	○ R-111-P	☐ WIPP
Cave / Karst	◉ Low	○ Medium	○ High	○ Critical
Wellhead	○ Conventional	◉ Multibowl	○ Both	○ Diverter
Cementing	☑ Primary Squeeze	☐ Cont. Squeeze	☑ EchoMeter	☐ DV Tool
Special Req	☑ Break Testing	☐ Water Disposal	☐ COM	☑ Unit
Variance	☑ Flex Hose	☐ Casing Clearance	☐ Pilot Hole	☐ Capitan Reef
Variance	☐ Four-String	☑ Offline Cementing	☐ Fluid-Filled	☐ Open Annulus
☑ **Batch APD / Sundry**				

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 must meet all requirements from **43 CFR 3176**, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **420** 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 5762'.**

    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.

Operator has proposed to pump down 13-3/8" X 7-5/8" annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the 7-5/8" casing to surface after the second stage BH to verify TOC.
Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out.

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

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

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

ALTERNATE CASING

Operator is approved to used Alternate casing program. Operator shall notify BLM before proceeding with alternate casing design. Intermediate casing must be kept fluid filled to meet BLM collapse requirements.

C. PRESSURE CONTROL

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

2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the casing shoe shall be **5000 (5M)** psi.

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

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

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

BOPE Break Testing Variance

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

Batch Sundry:

- Approval shall be for wells with surface, intermediate, and production section within 200' TVD tolerance between shoes above the deepest well shoes set depth.
- Approval shall be for wells with same drill plan design. (Casing depth may vary and cement volumes may vary per Condition of Approval.)
- Approval shall be for wells within the same drill pad.
- Cement excess shall be a minimum of 25%, adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

GENERAL REQUIREMENTS

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

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

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

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

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

   a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
   b. When the operator proposes to set surface casing with Spudder Rig
      - Notify the BLM when moving in and removing the Spudder Rig.
      - 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.
      - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.

2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

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, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity 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-P 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 part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.

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:

    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. Whenever any seal subject to test pressure is broken, all the tests in **43 CFR part 3170 Subpart 3172** must be followed.
    e. 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.

    a. 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).

b. 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.)

c. 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 part 3170 Subpart 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 water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

d. 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.

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

f. 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.

g. 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.

h. 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 part 3170 Subpart 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.

ZS 11/5/2023

Form 3160-3
(August 2007)

FORM APPROVED
OMB No. 1004-0137
Expires July 31, 2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: NMNM05912

6. If Indian, Allotee or Tribe Name:

1a. Type of work: ☑ DRILL ☐ REENTER

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

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

8. Lease Name and Well No.: Poker Lake Unit 13-24 PC 106H

2. Name of Operator: XTO Energy, Inc.

9. API Well No.:

3a. Address: 6401 Holiday Hill Road, Bldg 5
Midland, Texas 79701

3b. Phone No. *(include area code)*: 970-769-6048

10. Field and Pool, or Exploratory: Purple Sage; Wolfcamp

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

At surface: SWNE / 2459 FNL / 2160 FEL / LAT 32.218054 / LONG -103.936485

At proposed prod. zone: LOT 36 / 50 FSL / 1320 FEL / LAT 32.123039 / LONG -103.967997

11. Sec., T. R. M. or Blk. and Survey or Area: SEC 13 / T24S / R29E / 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): 2459 feet

16. No. of acres in lease:

17. Spacing Unit dedicated to this well: 640

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

19. Proposed Depth: 10404 feet / 20677 feet

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

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 3094 feet

22. Approximate date work will start*: 10/27/23

23. Estimated duration: 90 Days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

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 required by the BLM.

25. Signature: Cassie Evans — Name *(Printed/Typed)*: Cassie Evans — Date: 10/17/23

Title: Regulatory Coordinator

Approved by (Signature): CHRISTOPHER WALLS — Digitally signed by CHRISTOPHER WALLS Date: 2023.11.06 14:26:07 -07'00' — Name *(Printed/Typed)* — Date: 11/6/2023

Title: Sup PE — Office: CFO

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.

(Continued on page 2)

*(Instructions on page 2)

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 Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 284461

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 284461
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Original COA's still apply. Additionally, if cement does not circulate during cementing of any string, then a CBL is required on that string.	11/21/2023