

Well Name: BAR 4 FEDERAL	Well Location: T25S / R29E / SEC 4 / NWSW /	County or Parish/State: EDDY / NM
Well Number: 1	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM15302	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001525748	Well Status: Producing Gas Well	Operator: XTO ENERGY INCORPORATED

Accepted for record – NMOCD gc 1/30/2023

LONG VO

Digitally signed by LONG VO  
Date: 2023.01.22 08:54:56  
-06'00'

Notice of Intent

Sundry ID: 2706708

Type of Submission: Notice of Intent

Date Sundry Submitted: 12/09/2022

Date proposed operation will begin: 01/23/2023

Type of Action: Plug and Abandonment

Time Sundry Submitted: 02:40

Procedure Description: XTO Energy Inc respectfully submits a NOI to PA sundry for the well above. Attached is the prepared procedure along with the current and proposed WBD.

Approval Subject to  
General Requirements and  
Special Stipulations  
Attached

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

- Procedure Description
- Bar\_4\_Federal\_001\_Proposed\_WBD\_20221209143506.pdf
  - Bar\_4\_Federal\_001\_Procedure\_20221209143335.pdf
  - Bar\_4\_Federal\_001\_DHWP\_20221209143143.pdf

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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: DEC 09, 2022 02:39 PM  
Name: XTO ENERGY INCORPORATED  
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:

PLUG AND ABANDON WELLBORE  
BAR 4 FEDERAL 001  
EDDY COUNTY, NEW MEXICO  
Class II

MASIP	MAOP	MAWP	Surface Csg Yield
1,000 psi	1,000 psi	3,000 psi	2,110 psi

**SUMMARY:** Plug and abandon wellbore according to BLM regulations.

- 1) MIRU plugging company. Set open top steel pit for plugging.
- 2) ND WH and NU 3K manual BOP. Function test BOP.
- 3) POOH 2-3/8" tubing string (Est. 12,098').
- 4) Tag PBTD and spot 25 sxs on top CI H.
- 5) MIRU WLU, RIH GR sized for 7-5/8" 39.00# casing to 12375', RIH CIBP and set at 12350'. Notify BLM. Pressure test CIBP to 500 psig for 30 min.
- 6) Spot 25 SKS Class H from 12350' to 12250' (T/Perf). WOC, tag and notify BLM.
- 7) Spot 134 SKS Class H from 10123' to 9729' WOC and Tag (Shoe, Liner Top, T/Wolfcamp).
- 8) Spot 66 SKS Class C from 6730' to 6563' (T/Bone Spring).
- 9) Perf and squeeze from 5050' to 4900' 150 sxs CI C. WOC and Tag. (In 59 sxs/Out 22 sxs) (3000' between plugs)
- 10) MIRU WLU, perforate at 2970'.
- 11) Squeeze 203 SKS Class C from 2970' to 2611' (T/Delaware, 13-3/8" shoe, B. Salt). WOC, tag and notify BLM. (In 142 sxs/Out 61 sxs)
- 12) MIRU WLU, perforate at 760'.
- 13) Squeeze 113 SKS Class C from 760' to 560' (T. Salt, 20" shoe). WOC, tag and notify BLM. (In 79 sxs/Out 34 sxs)
- 14) MIRU WLU, perforate at 100'.
- 15) Circulate Class C to surface (Est. 60 SKS). (In 40 sxs/Out 17 sxs) Verify at surface.
- 16) ND BOP and cut off wellhead 5' below surface. RDMO PU and trucks.
- 17) Set P&A marker.
- 18) Pull fluid from steel tank and haul to disposal. Release steel tank.

## Bar 4 Federal 001 - Proposed WBD

20" shoe 629'

13-3/8" shoe

T/Delaware 2914'

T/Bone Spring 6680'

10-3/4" TOC 6054'

T/Wolfcamp 9876'

TOL 9893'

10-3/4" shoe 10100'

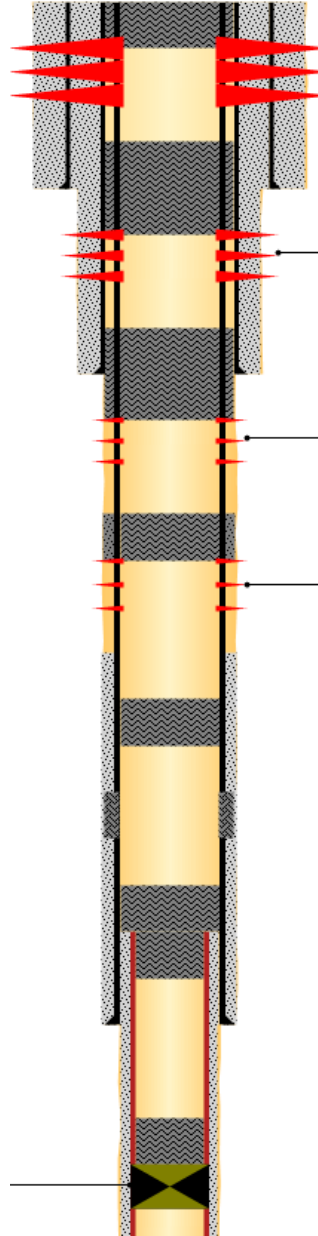
T/Perf 12421'

Approval Subject to

General Requirements and

Special Stipulations

Attached



Squeeze ~60 SKS Class C: 100' to surface.

Squeeze 95 SKS Class C: 679' – 529'.  
WOC and tag.

Squeeze 95 SKS Class C: 2970' – 2814'.  
WOC and tag.

Squeeze 60 SKS Class C: 4000' – 3900'.

Spot 90 SKS Class C: 6800' – 6580'.

Spot 70 SKS Class H: 9926' – 9776'.

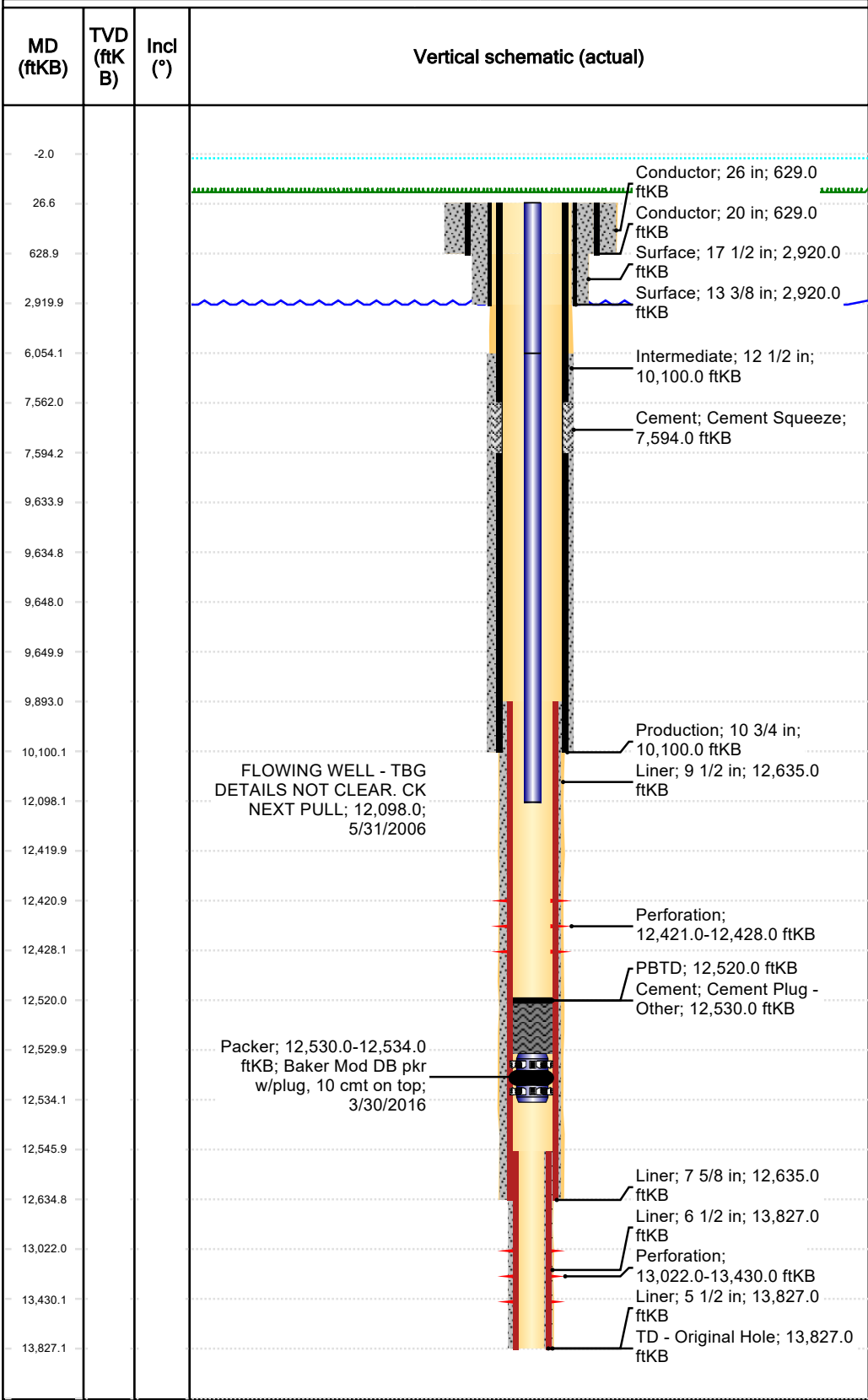
Spot 25 SKS Class H atop CIBP:  
12350' – 12250'. Pressure test CIBP  
to 500 psig for 30 min. WOC and tag.



Downhole Well Profile - with Schematic

Well Name: BAR 4 FEDERAL 001

API/UWI 3001525748	SAP Cost Center ID 1136351001	Permit Number	State/Province New Mexico	County Eddy			
Surface Location T25S-R29E-S04			Spud Date 11/30/1987 00:00	Original KB Elevation (ft) 2,970.00	Ground Elevation (ft) 2,950.00	KB-Ground Distance (ft) 20.00	Surface Casing Flange Elevation (ft)



Wellbores				
Wellbore Name Original Hole		Parent Wellbore Original Hole		Wellbore API/UWI 3001525748
Start Depth (ftKB) 26.5			Profile Type Vertical	
Section Des	Hole Sz (in)	Act Top (ftKB)		Act Btm (ftKB)
Conductor	26	26.5		629.0
Surface	17 1/2	629.0		2,920.0
Intermediate	12 1/2	2,920.0		10,100.0
Liner	9 1/2	9,893.0		12,635.0
Liner	6 1/2	12,546.0		13,827.0
Zones				
Zone Name	Top (ftKB)	Btm (ftKB)		Current Status
MORROW				
ATOKA				
Bone Spring - 2nd				
Casing Strings				
Csg Des	Set Depth (ftKB)	OD (in)	Wt/Len (lb/ft)	Grade
Conductor	629.0	20	94.00	K-55
Surface	2,920.0	13 3/8	61.00	K-55
Production	10,100.0	10 3/4	65.70	L-80
Liner	12,635.0	7 5/8	39.00	P-110
Liner	13,827.0	5 1/2	23.00	
Cement				
Des	Type	Start Date	Top (ftKB)	Btm (ftKB)
Production Casing Cement	Casing	11/30/1987	6,054.0	10,100.0
Liner Cement	Casing	11/30/1987	9,893.0	12,635.0
Surface Casing Cement	Casing	11/30/1987	26.5	2,920.0
Liner Cement	Casing	11/30/1987	12,546.0	13,827.0
Conductor Casing Cement	Casing	11/30/1987	26.5	629.0
Cement Squeeze	Squeeze	5/30/2006	7,562.0	7,594.0
Cement Plug - Other	Plug	5/31/2006	12,520.0	12,530.0
Other In Hole				
Run Date	Des	OD (in)	Top (ftKB)	Btm (ftKB)
3/30/2016	Packer	4 1/2	12,530.0	12,534.0
Perforations				
Date	Top (ftKB)	Btm (ftKB)	Linked Zone	
11/30/1987	12,421.0	12,428.0	ATOKA, Original Hole	
11/30/1987	13,022.0	13,430.0	MORROW, Original Hole	

Sundry ID 2706708

Plug Type	Top	Bottom	Length	Tag	Sacks	Cement Class	Notes
Surface Plug	0.00	100.00	100.00	Tag/Verify	57.00	C	Perf and squeeze from 100' to surface. (In 40 sxs/Out 17 sxs) Verify at surface.
Shoe Plug	560.83	667.00	106.17	Tag/Verify			
Top of Salt @ 710	652.90	760.00	107.10	Tag/Verify	113.00	C	Perf and squeeze from 760' to 560'. WOC and Tag. (In 79 sxs/Out 34 sxs)
Base of Salt @ 2688	2611.12	2738.00	126.88	Tag/Verify			
Delaware @ 2914	2834.86	2964.00	129.14	base no			
Shoe Plug	2840.80	2970.00	129.20	Tag/Verify	203.00	C	Perf and squeeze from 2970' to 2611'. WOC and Tag. (In 142 sxs/Out 61 sxs)
3000' between plugs @ 5000	4900.00	5050.00	150.00	If solid base no need to Tag (CIBP present and/or Mechanical Integrity Test), If Perf & Sqz then Tag, Leak Test all CIBP if no Open Perforations	81.00	C	Perf and squeeze from 5050' to 4900'. WOC and Tag. (In 59 sxs/Out 22 sxs)
Bonesprings @ 6680	6563.20	6730.00	166.80	If solid base no need to Tag (CIBP present and/or Mechanical Integrity Test), If Perf & Sqz then Tag, Leak Test all CIBP if no Open Perforations	66.00	C	Spot cement from 6730' to 6563'.
Wolfcamp @ 9876	9727.24	9926.00	198.76	base no			
Liner Top @ 9893	9744.07	9943.00	198.93	base no			

Shoe Plug	9922.27	10123.00	200.73	Tag/Verify	134.00	H	Spot cement from 10123' to 9727'. WOC and Tag.
Perforations Plug (If No CIBP)	12253.72	12478.00	224.28	Tag/Verify			
				If solid base no need to Tag (CIBP present and/or Mechanical Integrity Test), If Perf & Sqz then Tag, Leak Test all CIBP if no Open Perforations			
CIBP Plug	12336.00	12371.00	35.00		25.00	H	Set CIBP at 12350'. Leak test CIBP.
Shoe Plug	12458.65	12685.00	226.35	Tag/Verify	25.00	H	Tag PBTD and spot 25 sxs on top.

No more than 2000' is to be allowed between plugs in open hole, and no more than 3000' between plugs in cased hole.

Class H >7500'

Class C <7500'

Fluid used to mix the cement in R111P shall be saturated with the salts common to the section penetrated, and in suitable proportions, but not more than 3% calcium chloride by weight of cement will be considered the desired mixture whenever possible.

Medium, Secretary: Top of salt to surface If no salt take the deepest fresh water or Karst Depth

High, Critical: Bottom of Karst to surface or Deepest fresh water, whichever is greater

R111P: 50 Feet from Base of Salt to surface.

Class C: 1.32 ft<sup>3</sup>/sx

Class H: 1.06 ft<sup>3</sup>/sx

Onshore Order 2.III.G Drilling Abandonment Requirements: "All formations bearing usable-quality water, oil, gas, or geothermal resources, and/or a prospectively valuable deposit of minerals shall be protected.

Cave Karst/Potash Cement	Low		
Shoe @	617.00		
Shoe @	2920.00		
Shoe @	10073.00	TOC @	6054.00
Shoe @	12635.00	TOC @	9893.00
Perforatons Top @	12421.00	Perforations	12428.00
		CIBP @	12371.00



**BUREAU OF LAND MANAGEMENT  
Carlsbad Field Office  
620 East Greene Street  
Carlsbad, New Mexico 88220  
575-234-5972**

**Permanent Abandonment of Federal Wells  
Conditions of Approval (LPC Habitat)**

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within **ninety (90)** days from the approval date of this Notice of Intent to Abandon.

**If you are unable to plug the well by the 90<sup>th</sup> day provide this office, prior to the 90<sup>th</sup> day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged. Failure to do so will result in enforcement action.**

**The rig used for the plugging procedure cannot be released and moved off without the prior approval of the authorized officer. Failure to do so may result in enforcement action.**

2. **Notification:** Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-689-5981.

3. **Blowout Preventers:** A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. **Mud Requirement:** Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of brine water. Minimum nine (9) pounds per gallon.

5. **Cement Requirement:** Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient. **Before pumping or bailing cement on top of CIBP, tag will be required to verify depth. Based on depth, a tag of the cement may be deemed necessary.**

Unless otherwise specified in the approved procedure, the cement plug shall consist of either Neat Class "C", for up to 7,500 feet of depth or Neat Class "H", for deeper than 7,500 feet plugs.

6. Below Ground Level Cap (Lesser Prairie-Chicken Habitat): All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). **The BLM is to be notified a minimum of 4 hours prior to the wellhead being cut off to verify that cement is to surface in the casing and all annuluses. Wellhead cut off shall commence within ten (10) calendar days of the well being plugged. If the cut off cannot be done by the 10<sup>th</sup> day, the BLM is to be contacted with justification to receive an extension for completing the cut off.** Upon the plugging and subsequent abandonment of wells that are located in lesser prairie-chicken habitat, the casings shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The well bore shall then be covered with a metal plate at least ¼ inch thick and welded in place. A weep hole shall be left in the plate and/or casing.

NMOCD also requires the operator to notify NMOCD when this type of dry hole marker is used. This can be done on the subsequent report of abandonment which is submitted to the BLM after the well is plugged. State that a below ground cap was installed as required in the COA's from the BLM.

7. Subsequent Plugging Reporting: Within 30 days after plugging work is completed, file one original and three copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date well was plugged.**

8. Trash: All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

Following the submission and approval of the Subsequent Report of Abandonment, surface restoration will be required. See attached reclamation objectives.

**Timing Limitation Stipulation/ Condition of Approval for Lesser Prairie-Chicken:**

From March 1<sup>st</sup> through June 15<sup>th</sup> annually, abandonment activities will be allowed except between the hours from 3:00 am and 9:00 am. Normal vehicle use on existing roads will not be restricted



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Carlsbad Field Office  
620 E. Greene St.  
Carlsbad, New Mexico 88220-6292  
www.blm.gov/nm



In Reply Refer To: 1310

### Reclamation Objectives and Procedures

**Reclamation Objective:** Oil and gas development is one of many uses of the public lands and resources. While development may have a short- or long-term effect on the land, successful reclamation can ensure the effect is not permanent. During the life of the development, all disturbed areas not needed for active support of production operations should undergo “interim” reclamation in order to minimize the environmental impacts of development on other resources and uses. At final abandonment, well locations, production facilities, and access roads must undergo “final” reclamation so that the character and productivity of the land and water are restored.

The long-term objective of final reclamation is to set the course for eventual ecosystem restoration, including the restoration of the natural vegetation community, hydrology, and wildlife habitats. In most cases this means returning the land to a condition approximating or equal to that which existed prior to the disturbance. The final goal of reclamation is to restore the character of the land and water to its pre-disturbance condition. The operator is generally not responsible for achieving full ecological restoration of the site. Instead, the operator must achieve the short-term stability, visual, hydrological, and productivity objectives of the surface management agency and take steps necessary to ensure that long-term objectives will be reached through natural processes.

To achieve these objectives, remove any/all contaminants, scrap/trash, equipment, pipelines and powerlines **(Contact service companies, allowing plenty of time to have the risers and power lines and poles removed prior to reclamation, don't wait till the last day and try to get them to remove infrastructure)**. Strip and remove caliche, contour the location to blend with the surrounding landscape, re-distribute the native soils, provide erosion control as needed, rip (across the slope and seed as specified in the original APD COA. **This will apply to well pads, facilities, and access roads.** Barricade access road at the starting point. If reserve pits have not reclaimed due to salts or other contaminants, submit a plan for approval, as to how you propose to provide adequate restoration of the pit area.

1. The Application for Permit to Drill or Reenter (APD, Form 3160-3), Surface Use Plan of Operations must include adequate measures for stabilization and reclamation of disturbed lands. Oil and Gas operators must plan for reclamation, both interim and final, up front in the APD process as per Onshore Oil and Gas Order No. 1.
2. For wells and/or access roads not having an approved plan, or an inadequate plan for surface reclamation (either interim or final reclamation), the operator must submit a proposal describing the procedures for reclamation. For interim reclamation, the appropriate time for submittal would be when filing the Well Completion or Recompletion Report and Log (Form 3160-4). For final reclamation, the appropriate time for submittal would be when filing the Notice of Intent, or the Subsequent Report of Abandonment, Sundry Notices and Reports on Wells (Form 3160-5). Interim reclamation is to be completed within 6 months of well completion, and final reclamation is to be completed within 6 months of well abandonment.
3. The operator must file a Subsequent Report Plug and Abandonment (Form 3160-5) following the plugging of a well.
4. Previous instruction had you waiting for a BLM specialist to inspect the location and provide you with reclamation requirements. If you have an approved Surface Use Plan of Operation and/or an approved Sundry Notice, you are free to proceed with reclamation as per approved APD. If you

- have issues or concerns, contact a BLM specialist to assist you. It would be in your interest to have a BLM specialist look at the location and access road prior to the removal of reclamation equipment to ensure that it meets BLM objectives. Upon conclusion submit a Form 3160-5, Subsequent Report of Reclamation. This will prompt a specialist to inspect the location to verify work was completed as per approved plans.
5. The approved Subsequent Report of Reclamation will be your notice that the native soils, contour and seedbed have been reestablished. If the BLM objectives have not been met the operator will be notified and corrective actions may be required.
  6. It is the responsibility of the operator to monitor these locations and/or access roads until such time as the operator feels that the BLM objective has been met. If after two growing seasons the location and/or access roads are not showing the potential for successful revegetation, additional actions may be needed. When you feel the BLM objectives have been met submit a Final Abandonment Notice (FAN), Form 3160-5, stating that all reclamation requirements have been achieved and the location and/or access road is ready for a final abandonment inspection.
  7. At this time the BLM specialist will inspect the location and/or access road. If the native soils and contour have been restored, and the revegetation is successful, the FAN will be approved, releasing the operator of any further liability of the location and/or access road. If the location and/or access road have not achieved the objective, you will be notified as to additional work needed or additional time being needed to achieve the objective.

If there are any questions, please feel free to contact any of the following specialists:

Jim Amos  
Supervisory Petroleum Engineering Tech/Environmental Protection Specialist  
575-234-5909 (Office), 575-361-2648 (Cell)

Arthur Arias  
Environmental Protection Specialist  
575-234-6230

Crisha Morgan  
Environmental Protection Specialist  
575-234-5987

Jose Martinez-Colon  
Environmental Protection Specialist  
575-234-5951

Mark Mattozzi  
Environmental Protection Specialist  
575-234-5713

Robert Duenas  
Environmental Protection Specialist  
575-234-2229

Trishia Bad Bear, Hobbs Field Station  
Natural Resource Specialist  
575-393-3612



**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 180236

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 180236
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
gcordero	None	1/30/2023