

Well Name: BIG EDDY	Well Location: T21S / R28E / SEC 33 / SESW /	County or Parish/State: EDDY / NM
Well Number: 64	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMLC070061	Unit or CA Name: BIG EDDY UNIT - MORROW M	Unit or CA Number: NMNM68294S
US Well Number: 3001523131	Operator: XTO PERMIAN OPERATING LLC	

Notice of Intent

Sundry ID: 2783131

Type of Submission: Notice of Intent	Type of Action: Plug and Abandonment
Date Sundry Submitted: 04/03/2024	Time Sundry Submitted: 06:32
Date proposed operation will begin: 05/03/2024	

Procedure Description: XTO Permian Operating LLC, respectfully requests approval for plug and abandonment of the above mentioned well. Please see the attached P&A procedure with current and proposed WBD's for your review.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Big_Eddy_064_PAPprocedure_w_Current_and_Proposed_WBDs_20240403063010.pdf

Well Name: BIG EDDY	Well Location: T21S / R28E / SEC 33 / SESW /	County or Parish/State: EDDY / NM
Well Number: 64	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMLC070061	Unit or CA Name: BIG EDDY UNIT - MORROW M	Unit or CA Number: NMNM68294S
US Well Number: 3001523131	Operator: XTO PERMIAN OPERATING LLC	

Conditions of Approval

Specialist Review

2783131__Big_Eddy_64__3001523131__COA_and_Procedure_20240421161605.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: SHERRY MORROW	Signed on: APR 03, 2024 06:30 AM
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: SHERRY.MORROW@EXXONMOBIL.COM	

Field

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: KEITH P IMMATTY	BLM POC Title: ENGINEER
BLM POC Phone: 5759884722	BLM POC Email Address: KIMMATTY@BLM.GOV
Disposition: Approved	Disposition Date: 04/21/2024
Signature: KEITH IMMATTY	

PLUG AND ABANDON WELLBORE
BIG EDDY 064
EDDY COUNTY, NEW MEXICO
Class II

MASIP	MAOP	MAWP	Surface Csg Yield
1,000 psi	1,000 psi	3,000 psi	1730 PSI

307' Surface Casing Shoe
2554' Intermediate Casing Shoe
2582' T/Delaware
3399' T/Cherry Canyon
4278' TOC
4413' T/Brushy Canyon
5909' T/ BS
9525' T/Wolfcamp
10767 T/Strawn
10904 – 10933 Cement Squeeze
11178' T/Atoka
11948' Morrow
12124' T/Perfs

SUMMARY: Plug and abandon wellbore according to BLM regulations.

- 1) MIRU plugging company. Set open top steel pit for plugging.
- 2) POOH LD rods and pump.
- 3) ND WH and NU 3K manual BOP. Function test BOP.
- 4) Unset Packer at 12,044'. POOH tubing.
- 5) MIRU WLU, RIH GR to 12,110'; RIH set CIBP at 12,090', pressure test to 500 PSI for 30 minutes; spot 200 SKS **Class H** cement from 12,090' to 10,500'. WOC and tag to verify TOC. (T/ Perf, T/Morrow, T/Atoka, T/Strawn, Squeezed perfs)
- 6) Spot 80 SKS **Class H** cement from 9,575' to 8,925'. WOC and tag to verify TOC. (T/Wolfcamp)
- 7) MIRU WLU, Run CBL from 8,000' to surface. Contact engineering for further instruction. Tentatively, perforate 50' above TOC or 4,465', whichever is deeper.
- 8) Spot 30 SKS Class C cement from 6,000' to 5,700'. WOC and tag to verify TOC. (T/Bone Spring)
- 9) Set packer at 3,600'. Squeeze 75 SKS Class C cement. Displace with 34 Barrels and SI. WOC and tag. CTOC at 4140'. (T/Brushy Canyon)

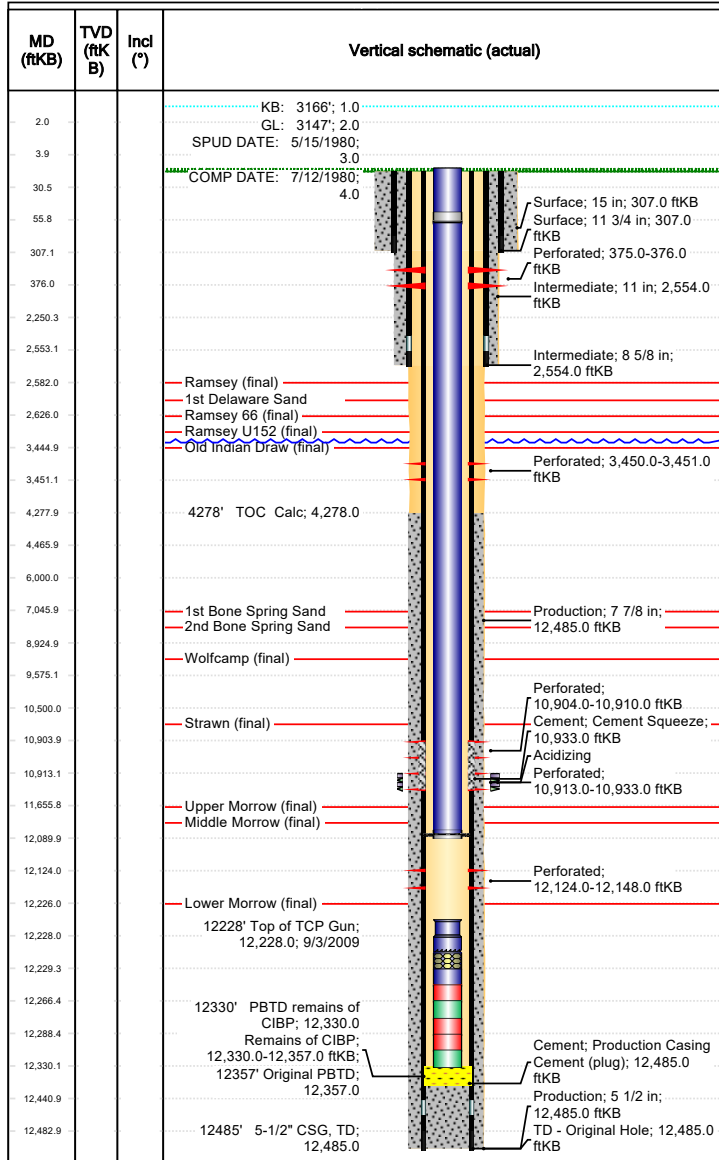
- 10) MIRU WL and perf at 3,450'.
- 11) Set packer at 1,700'. Squeeze 350 SKS Class C cement. Displace with 16 Barrels and SI. WOC and tag. CTOC at 1,950'. (T/Cherry Canyon, T/Delaware, Intermediate Casing Shoe)
- 12) MIRU WL. Perf at 375'.
- 13) Circulate Class C cement until returns at surface. (~90 SKS) (Surface Casing Shoe)
- 14) ND BOP and cut off wellhead 5' below surface. RDMO PU, transport trucks, and pump truck.
- 15) Set P&A marker.
- 16) Pull fluid from steel tank and haul to disposal. Release steel tank.



Downhole Well Profile - with Schematic

Well Name: Big Eddy 064

API/UWI 3001523131	SAP Cost Center ID 1135842001	Permit Number	State/Province New Mexico	County Eddy			
Surface Location T34C D005 000	Spud Date 5/15/1980 00:00	Original KB Elevation (ft) 2,460.00	Ground Elevation (ft) 2,447.00	KB-Ground Distance (ft) 13.00	Surface Casing Flange Eleva		



Wellbores					
Wellbore Name Original Hole		Parent Wellbore Original Hole		Wellbore API/UWI	
Start Depth (ftKB) 19.0			Profile Type Vertical		
Section Des	Hole Sz (in)	Act Top (ftKB)		Act Btm (ftKB)	
Surface	15	19.0		307.0	
Intermediate	11	307.0		2,554.0	
Production	7 7/8	2,554.0		12,485.0	
Zones					
Zone Name	Top (ftKB)	Btm (ftKB)		Current Status	
Strawn					
Middle Morrow					
Casing Strings					
Csg Des	Set Depth (ftKB)	OD (in)	Wt/Len (lb/ft)	Grade	
Surface	307.0	11 3/4	42.00	H-40	
Intermediate	2,554.0	8 5/8	28.00	S-80	
Production	12,485.0	5 1/2	17.00	N-80	
Cement					
Des	Type	Start Date	Top (ftKB)	Btm (ftKB)	
Surface Casing Cement	Casing	5/16/1980	19.0	307.0	
Intermediate Casing Cement	Casing	5/22/1980	19.0	2,554.0	
Production Casing Cement	Casing	7/2/1980	4,278.0	12,485.0	
Cement Squeeze	Squeeze	6/15/2004	10,904.0	10,933.0	
Other In Hole					
Run Date	Des	OD (in)	Top (ftKB)	Btm (ftKB)	
6/17/2004	Remains of CIBP	4.8	12,330.0	12,357.0	
Perforations					
Date	Top (ftKB)	Btm (ftKB)	Linked Zone		
5/1/2024	375.0	376.0			
5/1/2024	3,450.0	3,451.0			
7/13/1980	10,904.0	10,910.0			
1/9/1982	10,913.0	10,933.0			
6/21/2004	12,124.0	12,148.0			
Stimulation Intervals					
Interval Number	Top (ftKB)	Btm (ftKB)	AIR (bbl/min)	MIR (bbl/min)	Proppant Total (lb)
1	10,913.0	10,933.0			0.0

Big Eddy 064 - Proposed WBD

307' Surface Casing Shoe

2554' Intermediate Casing Shoe

2582' T/Delaware

3399' T/Cherry Canyon

4278' TOC

4413' T/Brushy Canyon

5909' T/ BS

9525' T/Wolfcamp

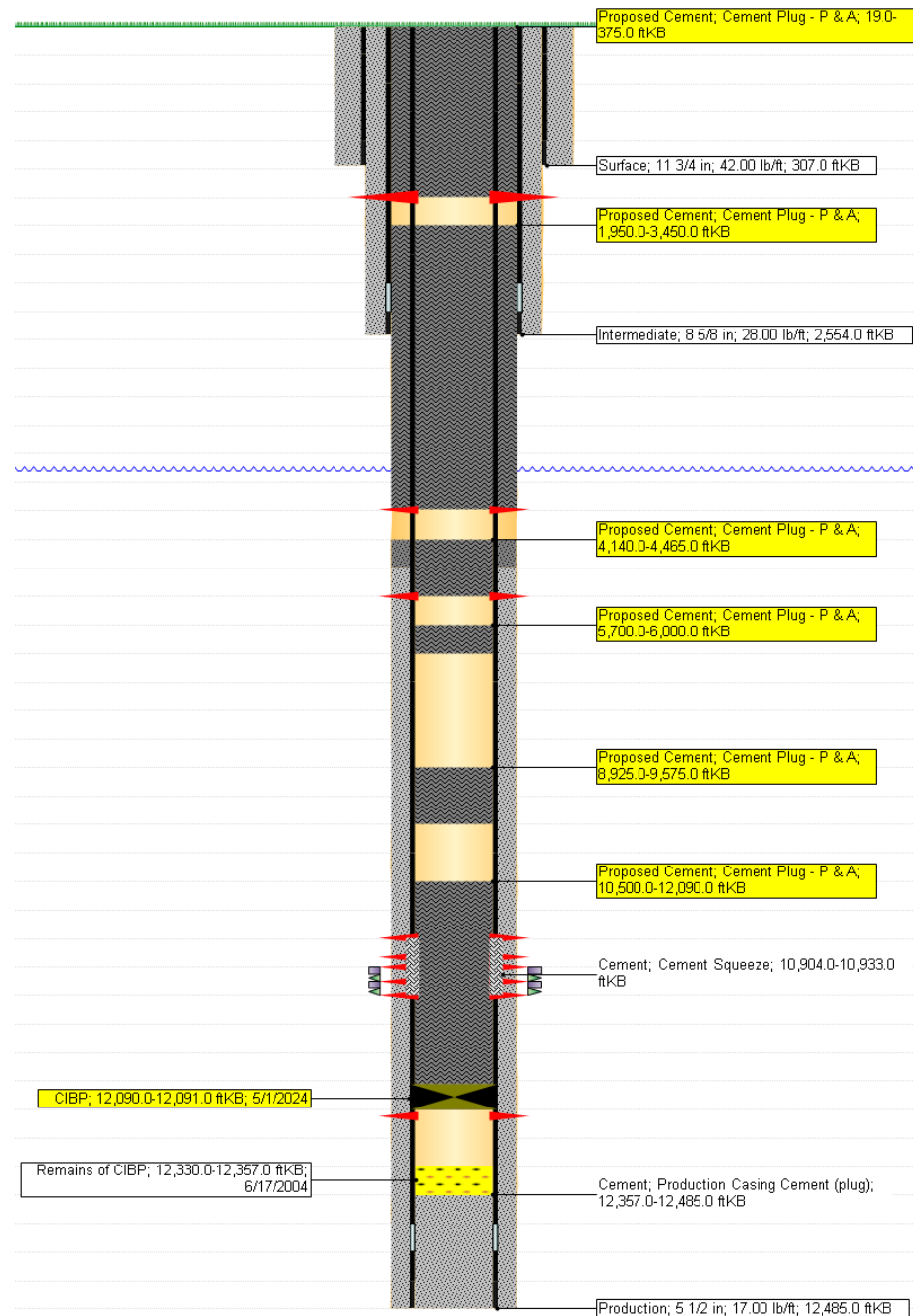
10767 T/Strawn

10904 – 10933 Cement Squeeze

11178' T/Atoka

11948' Morrow

12124' T/Perfs



Perf and circulate from 375' to surface.

Perf and squeeze 350 SKS Class C: 3,450' to 3,450'. WOC and Tag.

Perf and squeeze 75 SKS Class C: 4,465' to 4,140'. WOC and Tag.

Spot 30 SKS Class C: 6,000' to 5,700'. WOC and Tag.

Spot 80 SKS **Class H**: 9,575' to 8,925'. WOC and Tag.

Spot 196 SKS **Class H** atop CIBP: 12,090' to 10,500'. PT CIBP to 500 PSIG for 30 min. WOC and Tag.

PLUG AND ABANDON WELLBORE
BIG EDDY 064
EDDY COUNTY, NEW MEXICO
Class II

MASIP	MAOP	MAWP	Surface Csg Yield
1,000 psi	1,000 psi	3,000 psi	1730 PSI

307' Surface Casing Shoe
2554' Intermediate Casing Shoe
2582' T/Delaware
3399' T/Cherry Canyon
4278' TOC
4413' T/Brushy Canyon
5909' T/ BS
9525' T/Wolfcamp
10767 T/Strawn
10904 – 10933 Cement Squeeze
11178' T/Atoka
11948' Morrow
12124' T/Perfs

SUMMARY: Plug and abandon wellbore according to BLM regulations.

- 1) MIRU plugging company. Set open top steel pit for plugging.
- 2) POOH LD rods and pump.
- 3) ND WH and NU 3K manual BOP. Function test BOP.
- 4) Unset Packer at 12,044'. POOH tubing.
- 5) MIRU WLU, RIH GR to 12,110'; RIH set CIBP at 12,090', pressure test to 500 PSI for 30 minutes; spot 200 SKS **Class H** cement from 12,090' to 10,500'. WOC and tag to verify TOC. (T/ Perf, T/Morrow, T/Atoka, T/Strawn, Squeezed perfs)
- 6) Spot 80 SKS **Class H** cement from 9,575' to 8,925'. WOC and tag to verify TOC. (T/Wolfcamp)
- 7) MIRU WLU, Run CBL from 8,000' to surface. Contact engineering for further instruction. Tentatively, perforate 50' above TOC or 4,465', whichever is deeper.
- 8) Spot 30 SKS Class C cement from 6,000' to 5,700'. WOC and tag to verify TOC. (T/Bone Spring)
- 9) Set packer at 3,600'. Squeeze 75 SKS Class C cement. Displace with 34 Barrels and SI. WOC and tag. CTOC at 4140'. (T/Brushy Canyon)

- 10) MIRU WL and perf at 3,450'.
- 11) Set packer at 1,700'. Squeeze 350 SKS Class C cement. Displace with 16 Barrels and SI. WOC and tag. CTOC at 1,950'. (T/Cherry Canyon, T/Delaware, Intermediate Casing Shoe)
- 12) MIRU WL. Perf at **500'**. **Adjusting due to cave karst area, and covering FW top due to no salt plug**
- 13) Circulate Class C cement until returns at surface. (~**130** SKS) (Surface Casing Shoe)
- 14) ND BOP and cut off wellhead 5' below surface. RDMO PU, transport trucks, and pump truck.
- 15) Set P&A marker.
- 16) Pull fluid from steel tank and haul to disposal. Release steel tank.

KEITH
IMMATY

Digitally signed by KEITH
IMMATY
Date: 2024.04.21 16:12:54
-06'00'

Big Eddy 064 - Proposed WBD

307' Surface Casing Shoe

2554' Intermediate Casing Shoe

2582' T/Delaware

3399' T/Cherry Canyon

4278' TOC

4413' T/Brushy Canyon

5909' T/ BS

9525' T/Wolfcamp

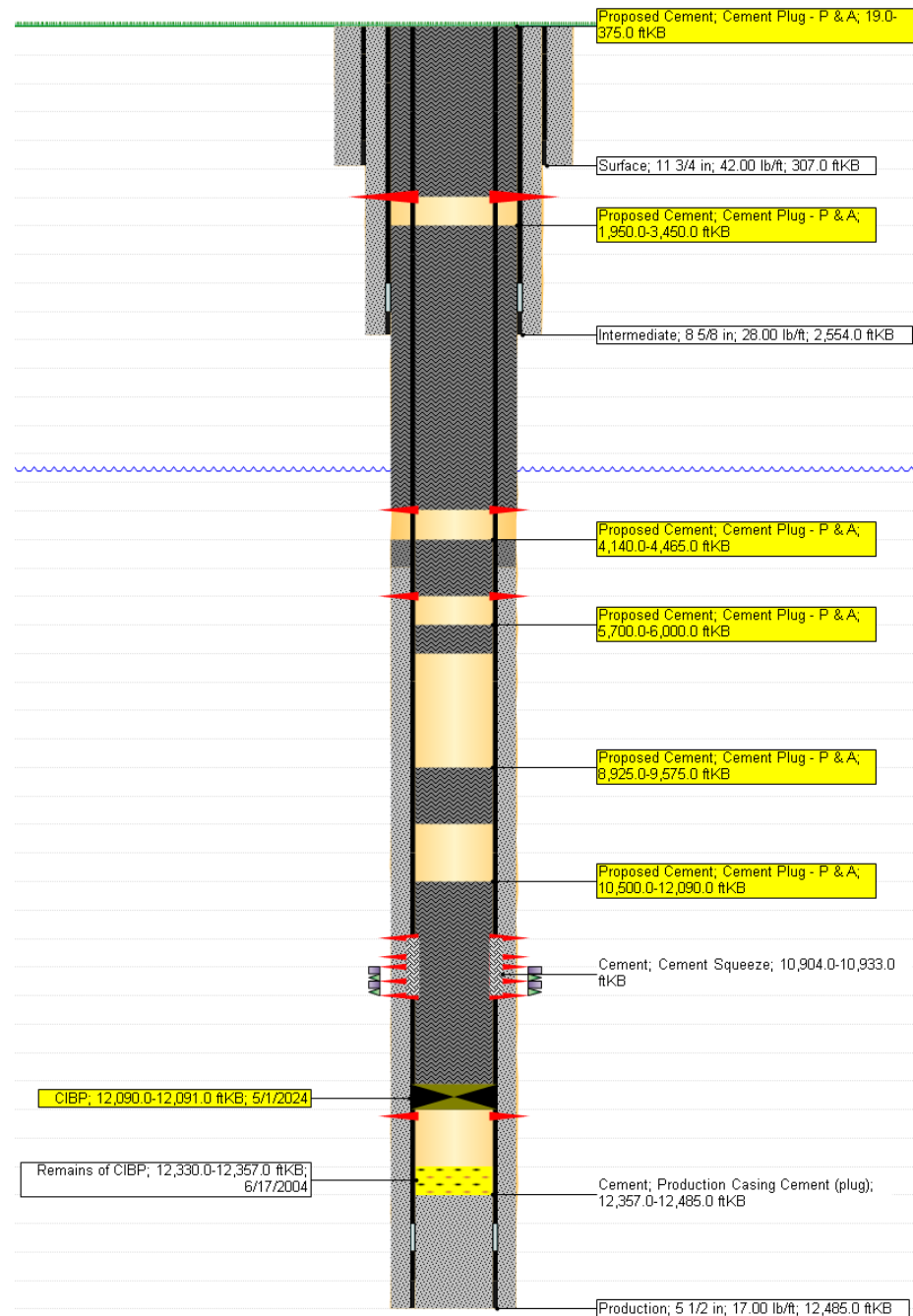
10767 T/Strawn

10904 – 10933 Cement Squeeze

11178' T/Atoka

11948' Morrow

12124' T/Perfs



Perf and circulate from **500'** to surface.

Perf and squeeze 350 SKS Class C: 3,450' to **1,950'**. WOC and Tag.

Perf and squeeze 75 SKS Class C: 4,465' to 4140'. WOC and Tag.

Spot 30 SKS Class C: 6,000' to 5,700'. WOC and Tag.

Spot 80 SKS **Class H**: 9,575' to 8,925'. WOC and Tag.

Spot 196 SKS **Class H** atop CIBP: 12,090' to 10,500'. PT CIBP to 500 PSIG for 30 min. WOC and Tag.

Sundry ID 2783131

Plug Type	Top	Bottom	Length	Tag	Sacks	Notes
Surface Plug	0.00	500.00	500.00	Verify circulated to surface	~120	Perf and sqz. Surface plug from 500' to surface for high cave karst, lack of salt and covering FW top
Shoe Plug	253.93	357.00	103.07			
Fresh Water @ 350	296.50	400.00	103.50			
Shoe Plug	2478.46	2604.00	125.54	WOC and Tag	350.00	Perf and sqz.
Delaware @ 2582	2506.18	2632.00	125.82			
Bonesprings @ 5909	5799.91	5959.00	159.09			
Wolfcamp @ 9525	8925.00	9575.00	650.00		80.00	Big plug to avoid 3000'+ gap
Morrow @ 11948	11778.52	11998.00	219.48	Verify CIBP depth	196.00	Leak test 500psi, 30mins
CIBP Plug	12055.00	12090.00	35.00			

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.

Critical, High Cave Karst: Cave Karst depth to surface

R111P: Solid plug in all annuli - 50' from bottom of salt to surface.

Class C: 1.32 ft³/sx

Class H: 1.06 ft³/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	High	KARST DEPTH/TOS to surface	500.00
---------------------------------	-------------	-----------------------------------	--------

Shoe @ 307.00

Shoe @ 2554.00

Shoe @ 12485.00

Perforatons Top @	10904.00	Perforations Bottom @	10933.00
-------------------	----------	-----------------------	----------

CIBP @ 12090.00

**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**

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 90th day provide this office, prior to the 90th 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. Tagging the plug means running in the hole with a string of tubing or drill pipe and placing sufficient weight on the plug to ensure its integrity. Other methods of tagging the plug may be approved by the BLM authorized officer or BLM field representative.

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. Dry Hole Marker: 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 *BY PHONE* (numbers listed in 2. Notifications,) 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 10th day, the BLM is to be contacted with justification to receive an extension for completing the cut off.**

The well bore shall then be capped with a 4-inch pipe, 10-feet in length, 4 feet above ground and embedded in cement, unless otherwise noted in COA (requirements will be attached). The following information shall be permanently inscribed on the dry hole marker: well name and number, name of the operator, lease serial number, surveyed location (quarter-quarter section, section, township and range or other authorized survey designation acceptable to the authorized officer such as metes and bounds). A weep hole shall be left if a metal plate is welded in place.

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.



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

Doris Lauger Martinez
Environmental Protection Specialist
575-234-5926

Jaden Johnston
Environmental Protection Asst. (Intern)
575-234-6252

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 338062

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 338062
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
gcordero	CBL must be submitted to OCD via OCD Permitting before submitting C-103P. Run CBL from 12090' to surface	5/10/2024