

Well Name: COOPER JAL UNIT	Well Location: T24S / R37E / SEC 19 / NENW /	County or Parish/State: LEA / NM
Well Number: 124	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM12612	Unit or CA Name: COOPER JAL UNIT	Unit or CA Number: NMNM70926X
US Well Number: 3002511153	Well Status: Oil Well Shut In	Operator: LEGACY RESERVES OPERATING LP

Notice of Intent

LONG VO

Digitally signed by
LONG VO
Date: 2022.09.13
09:17:24 -05'00'

Sundry ID: 2690262**Type of Submission:** Notice of Intent**Type of Action:** Plug and Abandonment**Date Sundry Submitted:** 09/01/2022**Time Sundry Submitted:** 09:59**Date proposed operation will begin:** 09/16/2022

Procedure Description: 1. Tag 5 1/2" CIBP @ 2924' w/ a 35' cmt cap on top. Circ hole w/ MLF. Pressure test csg. Spot 25 sx cmt @ 2889 (tag) - 2650'. WOC & Tag (B/Salt) 2. Perf & Sqz 50 sx cmt @ 1350-1150'. WOC & Tag (T/Salt & DV Tool) 3. Perf & Sqz 80 sx cmt @ 358' to surface. (9 5/8" Shoe) 4. Cut off well head, verify cmt @ surface, weld on Dry Hole Marker.

Surface Disturbance**Is any additional surface disturbance proposed?:** No

Approval Subject to

General Requirements and

Special Stipulations

Attached

NOI Attachments**Procedure Description**

CJU_124_Current__Proposed_Plugged_WBD_20220901095836.pdf

Accepted for Record Only

SUBJECT TO LIKE
APPROVAL BY BLM

KF

NMOCD 9/22/22

Well Name: COOPER JAL UNIT

Well Location: T24S / R37E / SEC 19 /
NENW /County or Parish/State: LEA /
NM

Well Number: 124

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM12612

Unit or CA Name: COOPER JAL UNIT

Unit or CA Number:
NMNM70926X

US Well Number: 3002511153

Well Status: Oil Well Shut In

Operator: LEGACY RESERVES
OPERATING LP**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: MELANIE REYES

Signed on: SEP 01, 2022 09:59 AM

Name: LEGACY RESERVES OPERATING LP

Title: Compliance Coordinator

Street Address: 15 SMITH ROAD SUITE 3000

City: MIDLAND

State: TX

Phone: (432) 221-6358

Email address: MREYES@LEGACYRESERVES.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

PLUG AND ABANDONMENT CONDITIONS OF APPROVAL

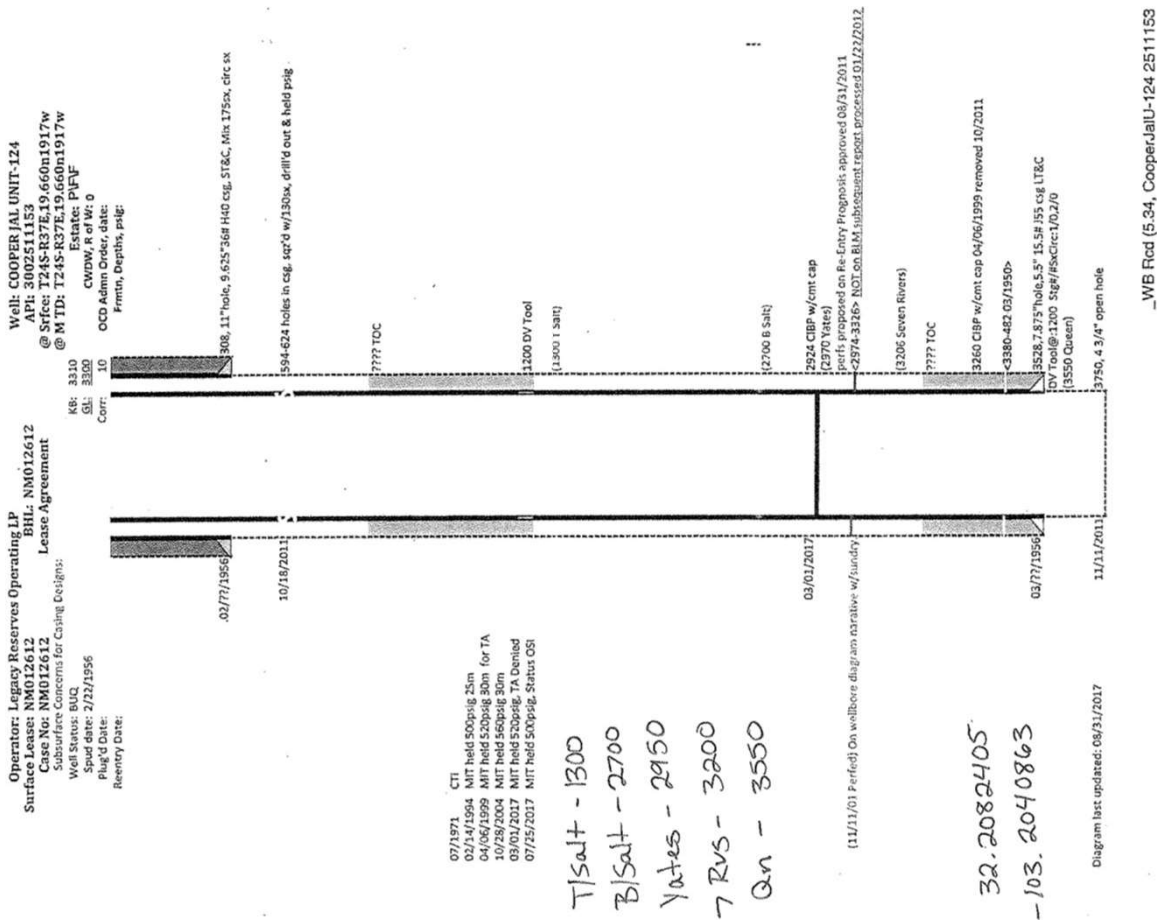
OPERATOR'S NAME:	Legacy Reserves Operating LP
LEASE NO.:	NMNM12612
WELL NAME & NO.:	Cooper Jal Unit 124
US Well Number:	3002511153
LOCATION:	Section 19, T.24 S., R.37 E., NMPM
COUNTY:	Lea County, New Mexico
Sundry ID:	2690262
Karst:	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> Critical
Potash:	<input type="checkbox"/> Secretary <input type="checkbox"/> R111P
Special Area:	<input type="checkbox"/> Prairie Chicken <input checked="" type="checkbox"/> Capitan Reef

1. Tag 5 1/2" CIBP @ 2924' w/ a 35' cmt cap on top. Circ hole w/ MLF. Pressure test csg. Spot 25 sx cmt @ 2889 (tag) - 2650'. WOC & Tag (B/Salt)
2. Perf & Sqz 50 sx cmt @ 1350-1150'. WOC & Tag (T/Salt & DV Tool)
3. Perf & Sqz 11080 sx cmt @ 358' to surface. (9 5/8" Shoe)
4. Cut off well head, verify cmt @ surface, weld on Dry Hole Marker.

Approval Subject to General Requirements and Special Stipulations Attached

- No more than 3000 feet between cement plugs in cased hole.
- Wait on Cement and Tag Top of Cement Requirement:
 1. Shoe, Top of Salt, Base of Salt, DV tool, Perforate and Squeeze, Open Perforation.
 2. Formation plug is optional if a solid base is established and confirmed.

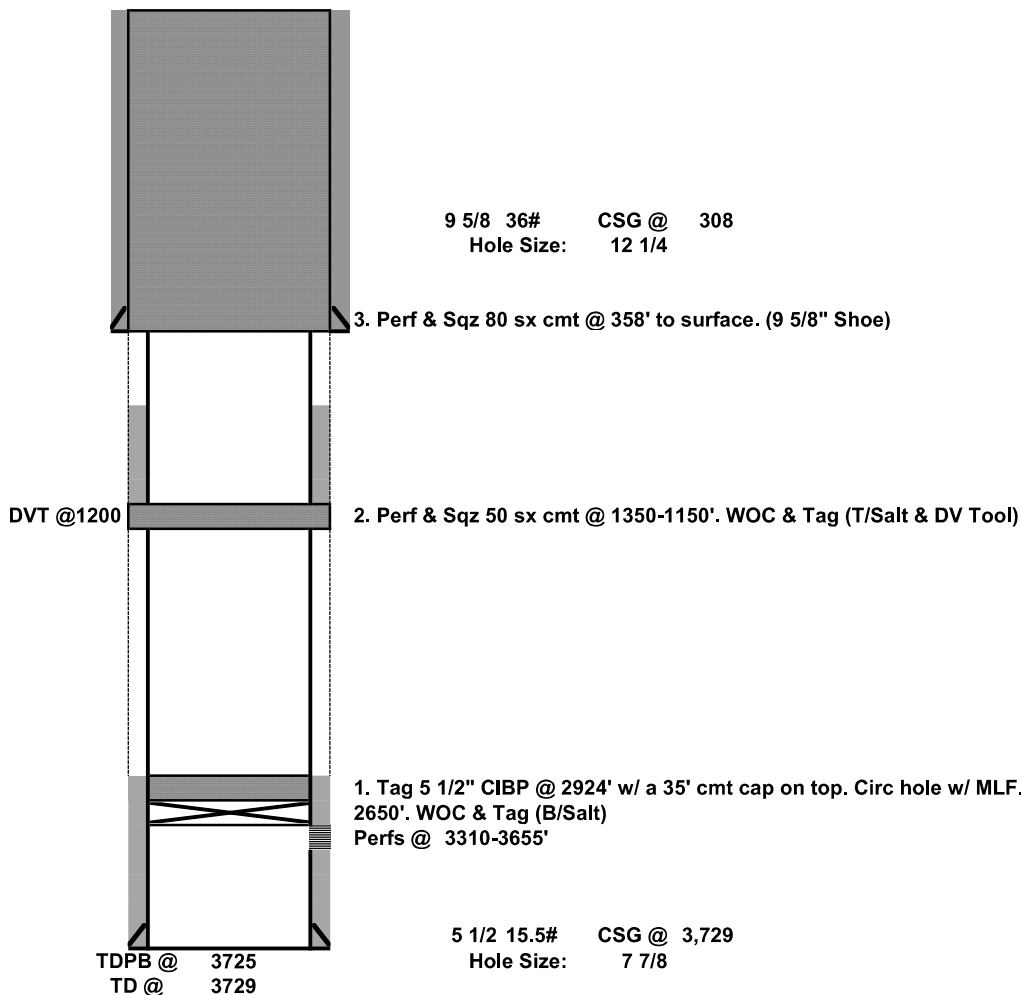
Current WBD



Legacy Reserves		PROPOSED	
Author:	Abby @ BCM	Well No.	#124
Well Name	Cooper Jal Unit	API #:	30-025-11153
Field/Pool	Jalmat; Langlie	Location:	T24S/R37E/Sec 19
	Mattix		660 FNL & 1917 FWL
County	Lea	GL:	3300
State	NM		
Spud Date	2/22/1956		

Description	O.D.	Grade	Weight	Depth	Hole	Cmt Sx	TOC
Surface Csg	9 5/8	H40	36#	308	12 1/4	175	0
Prod Csg	5 1/2	J55	15.5#	3,729	7 7/8	300	2475' & 675' Calc

Formation	Top
T/Salt	1300
B/Salt	2700
Yates	2950
7 Rivers	3200
Queen	3550



Approval Subject to
General Requirements and
Special Stipulations
Attached

32.2082405
-103.2040863

Sundry ID 2690262

Plug Type	Top	Bottom	Length	Tag	Sacks	Notes
Surface Plug	0.00	358.00	358.00	Tag/Verify		
Shoe Plug	254.92	358.00	103.08	Tag/Verify	110.00	Perf and Squeeze at 358' to surface. (In/Out) Verify at surface.
DV tool plug	1138.00	1250.00	112.00	Tag/Verify		
Top of Salt @ 1300	1237.00	1350.00	113.00	Tag/Verify	50.00	Perf and attempt squeeze at 1350' to 1150'. WOC and Tag. (In/Out)
Base of Salt @ 2850	2771.50	2900.00	128.50	Tag/Verify		
CIBP Plug	2889.00	2924.00	35.00	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 Perforatio	25.00	Tag CIBP. Leak Test CIBP and spot 25 sx on top. WOC and Tag from 2889' to 2772'.
Yates @ 2970	2890.30	3020.00	129.70	If solid		
Perforations Plug (If No CIBP)	2924.00	3532.00	608.00	Tag/Verify		
Seven Rivers @ 3206	3123.94	3256.00	132.06	If solid		

Shoe Plug	3442.72	3578.00	135.28	Tag/Verify		

Class C: 1.32 ft ³ /sx
Class H: 1.06 ft ³ /sx

Cave Karst/Potash Cement	Low
--------------------------	-----

Shoe @	308.00		
Shoe @	3528.00	TOC @	n/a
Perforatons Top @	2974.00	Perforations	3482.00
DV Tool @	1200.00	CIBP @	2924.00

**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.

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 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 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

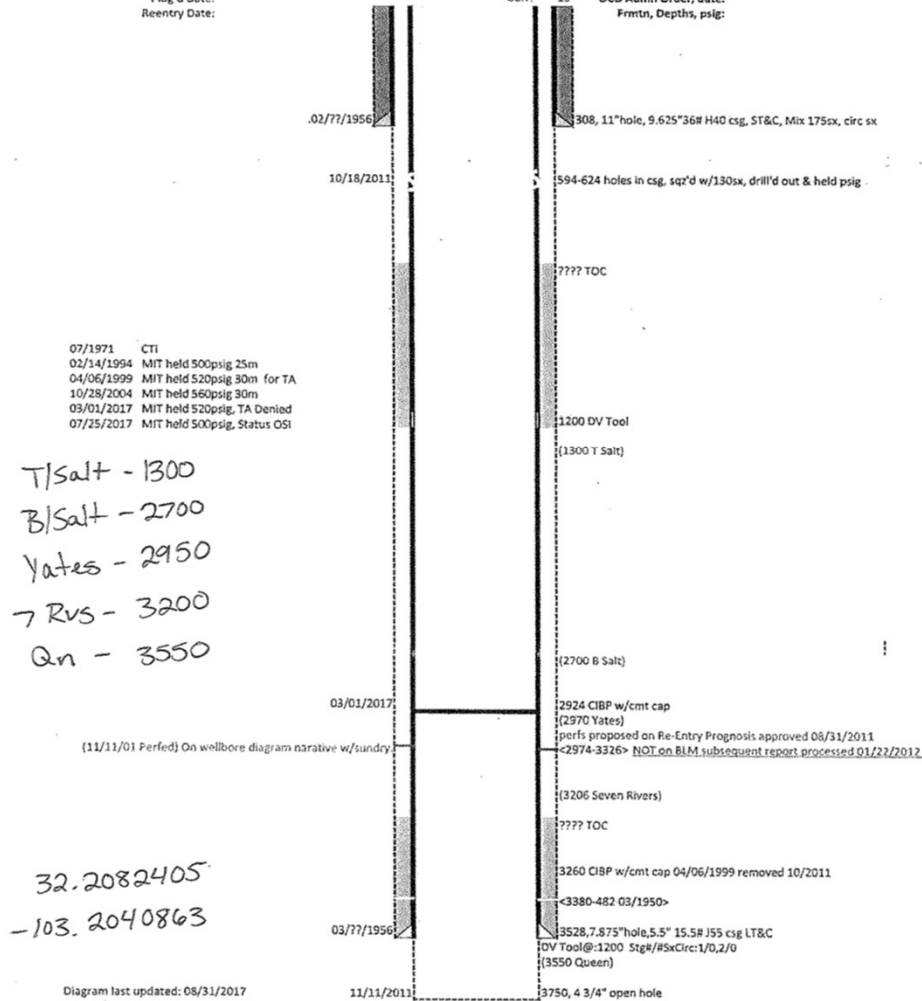
Robert Duenas
Environmental Protection Specialist
575-234-2229

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

Current WBD

Operator: Legacy Reserves Operating LP
 Surface Lease: NM012612 BHL: NM012612
 Case No: NM012612 Lease Agreement
 Subsurface Concerns for Casing Designs:
 Well Status: BUQ
 Spud date: 2/22/1956
 Plug'd Date:
 Reentry Date:

Well: COOPER JAL UNIT-124
 API: 3002511153
 @ Srce: T24S-R37E,19.660n1917w
 @ M TD: T24S-R37E,19.660n1917w
 Estate: P/F/F
 CWDW, R of W: 0
 OCD Admn Order, date:
 Frmtn, Depths, psig:

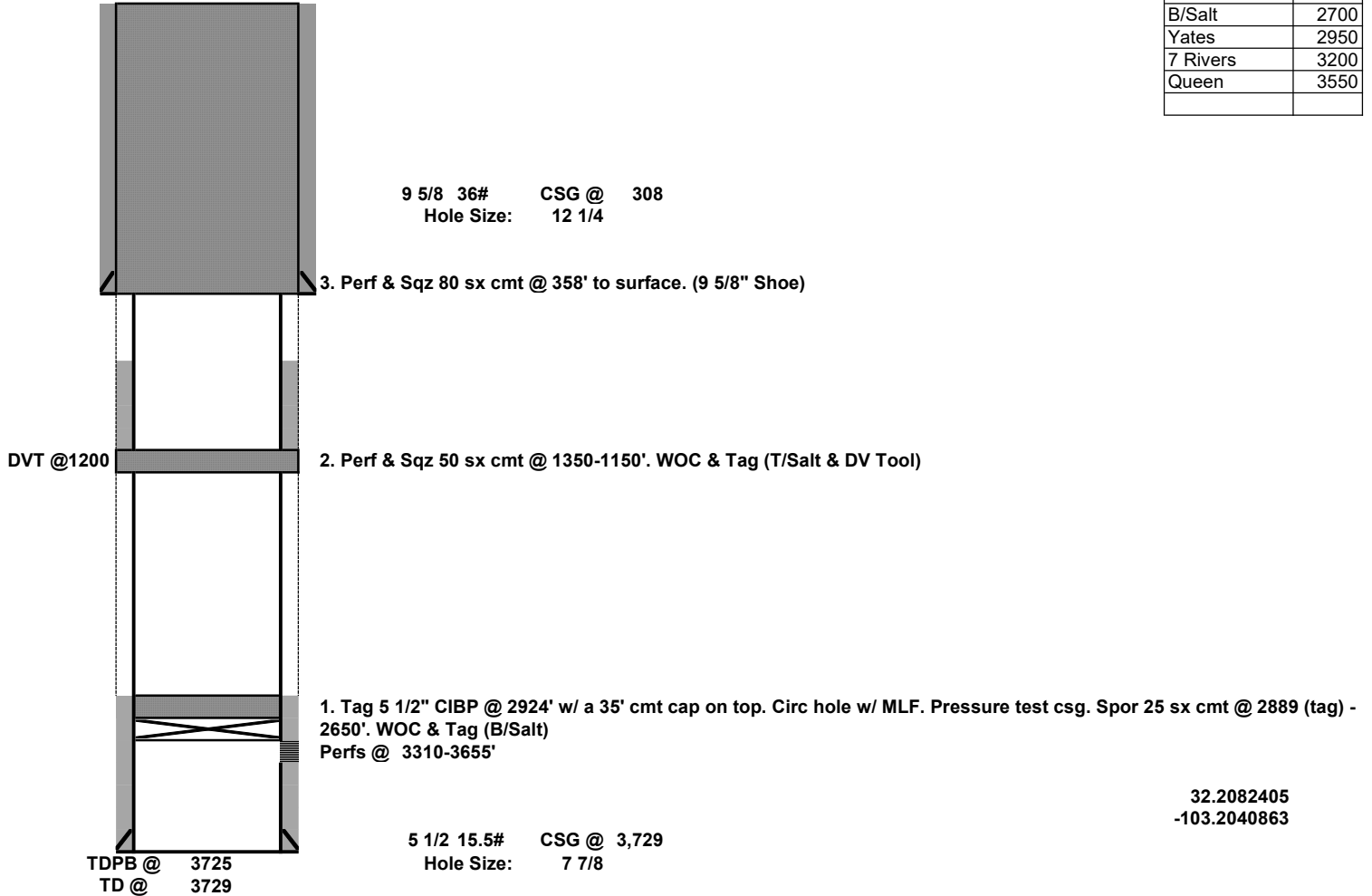


_WB Rcd (5.34, CooperJalU-124 2511153)

Legacy Reserves		PROPOSED	
Author:	Abby @ BCM	Well No.	#124
Well Name	Cooper Jal Unit	API #:	30-025-11153
Field/Pool	Jalmat; Langlie	Location:	T24S/R37E/Sec 19
	Mattix		660 FNL & 1917 FWL
County	Lea	GL:	3300
State	NM		
Spud Date	2/22/1956		

Description	O.D.	Grade	Weight	Depth	Hole	Cmt Sx	TOC
Surface Csg	9 5/8	H40	36#	308	12 1/4	175	0
Prod Csg	5 1/2	J55	15.5#	3,729	7 7/8	300	2475' & 675' Calc

Formation	Top
T/Salt	1300
B/Salt	2700
Yates	2950
7 Rivers	3200
Queen	3550



Well Name: COOPER JAL UNIT	Well Location: T24S / R37E / SEC 19 / NENW /	County or Parish/State: LEA / NM
Well Number: 124	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM12612	Unit or CA Name: COOPER JAL UNIT	Unit or CA Number: NMNM70926X
US Well Number: 3002511153	Well Status: Oil Well Shut In	Operator: LEGACY RESERVES OPERATING LP

Notice of Intent

LONG VO

Digitally signed by
LONG VO
Date: 2022.09.13
09:17:24 -05'00'

Sundry ID: 2690262**Type of Submission:** Notice of Intent**Type of Action:** Plug and Abandonment**Date Sundry Submitted:** 09/01/2022**Time Sundry Submitted:** 09:59**Date proposed operation will begin:** 09/16/2022

Procedure Description: 1. Tag 5 1/2" CIBP @ 2924' w/ a 35' cmt cap on top. Circ hole w/ MLF. Pressure test csg. Spot 25 sx cmt @ 2889 (tag) - 2650'. WOC & Tag (B/Salt) 2. Perf & Sqz 50 sx cmt @ 1350-1150'. WOC & Tag (T/Salt & DV Tool) 3. Perf & Sqz 80 sx cmt @ 358' to surface. (9 5/8" Shoe) 4. Cut off well head, verify cmt @ surface, weld on Dry Hole Marker.

Surface Disturbance**Is any additional surface disturbance proposed?:** No

Approval Subject to

General Requirements and

Special Stipulations

Attached

NOI Attachments**Procedure Description**

CJU_124_Current__Proposed_Plugged_WBD_20220901095836.pdf

Well Name: COOPER JAL UNIT

Well Location: T24S / R37E / SEC 19 /
NENW /County or Parish/State: LEA /
NM

Well Number: 124

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM12612

Unit or CA Name: COOPER JAL UNIT

Unit or CA Number:
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US Well Number: 3002511153

Well Status: Oil Well Shut In

Operator: LEGACY RESERVES
OPERATING LP**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: MELANIE REYES

Signed on: SEP 01, 2022 09:59 AM

Name: LEGACY RESERVES OPERATING LP

Title: Compliance Coordinator

Street Address: 15 SMITH ROAD SUITE 3000

City: MIDLAND

State: TX

Phone: (432) 221-6358

Email address: MREYES@LEGACYRESERVES.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

PLUG AND ABANDONMENT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Legacy Reserves Operating LP
LEASE NO.:	NMNM12612
WELL NAME & NO.:	Cooper Jal Unit 124
US Well Number:	3002511153
LOCATION:	Section 19, T.24 S., R.37 E., NMPM
COUNTY:	Lea County, New Mexico
Sundry ID:	2690262
Karst:	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> Critical
Potash:	<input type="checkbox"/> Secretary <input type="checkbox"/> R111P
Special Area:	<input type="checkbox"/> Prairie Chicken <input checked="" type="checkbox"/> Capitan Reef

1. Tag 5 1/2" CIBP @ 2924' w/ a 35' cmt cap on top. Circ hole w/ MLF. Pressure test csg. Spot 25 sx cmt @ 2889 (tag) - 2650'. WOC & Tag (B/Salt)
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Approval Subject to General Requirements and Special Stipulations Attached

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- Wait on Cement and Tag Top of Cement Requirement:
 1. Shoe, Top of Salt, Base of Salt, DV tool, Perforate and Squeeze, Open Perforation.
 2. Formation plug is optional if a solid base is established and confirmed.

Operator: Legacy Reserves Operating LP
Surface Lease: NM012612
Case No: NM012612
Subsurface Concerns for Casing Designs

Well status: BUQ
Spud date: 2/22/1956
Plug'd Date:
Reentry Date:

02/14/1994 MIT held 500' pig 25m
04/06/1999 MIT held 500' pig 30m for TA
10/28/2004 MIT held 500' pig 30m
03/02/2017 MIT held 500' pig TA Cement
07/25/2017 MIT held 500' pig Status OK

07/1971 CTI
02/14/1994 MIT held 500' pig 25m
04/06/1999 MIT held 500' pig 30m for TA
10/28/2004 MIT held 500' pig 30m
03/02/2017 MIT held 500' pig TA Cement
07/25/2017 MIT held 500' pig Status OK

T/Salt - 1300
B/Salt - 2700
Yates - 2950
7 Rvs - 3200
Qn - 3550

32.2082405
-103.2040863

Diagram last updated: 09/31/2017

02/77/1956
10/18/2011
03/03/2017
11/11/2011

Subsurface Concerns for Casing Designs

Well status: BUQ
Spud date: 2/22/1956
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Diagram last updated: 09/31/2017

Legacy Reserves		PROPOSED	
Author:	Abby @ BCM	Well No.	#124
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Field/Pool	Jalmat; Langlie Mattix	Location:	T24S/R37E/Sec 19
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Spud Date	2/22/1956		

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Formation	Top
T/Salt	1300
B/Salt	2700
Yates	2950
7 Rivers	3200
Queen	3550

9 5/8 36# CSG @ 308
Hole Size: 12 1/4

3. Perf & Sqz 80 sx cmt @ 358' to surface. (9 5/8" Shoe)

DVT @1200

2. Perf & Sqz 50 sx cmt @ 1350-1150'. WOC & Tag (T/Salt & DV Tool)

1. Tag 5 1/2" CIBP @ 2924' w/ a 35' cmt cap on top. Circ hole w/ MLF. Pressure test csg. Spor 25 sx cmt @ 2889 (tag) - 2650'. WOC & Tag (B/Salt)
Perfs @ 3310-3655'

TDPB @ 3725
TD @ 3729

5 1/2 15.5# CSG @ 3,729
Hole Size: 7 7/8

Approval Subject to
General Requirements and
Special Stipulations
Attached

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-103.2040863

Sundry ID 2690262

Plug Type	Top	Bottom	Length	Tag	Sacks	Notes
Surface Plug	0.00	358.00	358.00	Tag/Verify		
Shoe Plug	254.92	358.00	103.08	Tag/Verify	110.00	Perf and Squeeze at 358' to surface. (In/Out) Verify at surface.
DV tool plug	1138.00	1250.00	112.00	Tag/Verify		
Top of Salt @ 1300	1237.00	1350.00	113.00	Tag/Verify	50.00	Perf and attempt squeeze at 1350' to 1150'. WOC and Tag. (In/Out)
Base of Salt @ 2850	2771.50	2900.00	128.50	Tag/Verify		
CIBP Plug	2889.00	2924.00	35.00	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 Perforatio	25.00	Tag CIBP. Leak Test CIBP and spot 25 sx on top. WOC and Tag from 2889' to 2772'.
Yates @ 2970	2890.30	3020.00	129.70	If solid		
Perforations Plug (If No CIBP)	2924.00	3532.00	608.00	Tag/Verify		
Seven Rivers @ 3206	3123.94	3256.00	132.06	If solid		

Shoe Plug	3442.72	3578.00	135.28	Tag/Verify		

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 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 **Low**

Shoe @ 308.00

Shoe @ 3528.00 TOC @ n/a

Perforatons Top @ 2974.00 Perforations 3482.00

DV Tool @ 1200.00 CIBP @ 2924.00

**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.

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 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 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

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

COMMENTS

Action 142866

COMMENTS

Operator: LEGACY RESERVES OPERATING, LP 15 Smith Road Midland, TX 79705	OGRID: 240974
	Action Number: 142866
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

COMMENTS

Created By	Comment	Comment Date
plmartinez	DATA ENTRY PM	9/22/2022

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Created By	Condition	Condition Date
kfortner	Like approval from BLM	9/22/2022