Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 202

_				
5.	Lease	Serial	No.	

BUREAU OF LAND MANAGEMENT				5. Lease Serial No.			
	OTICES AND REPORTS		6		ſ	NMNM053434	
	orm for proposals to drill				6. If Indian, Allottee	or Tribe Name	
	Jse Form 3160-3 (APD) fo						
SUBMIT IN T	RIPLICATE - Other instructions	on page 2			7. If Unit of CA/Agreement, Name and/or No.		
1. Type of Well					LEA UNIT - BONE SPRINGS/NMNM70976B		
Oil Well Gas W	8. Well Name and No	LEA UNIT/1	1				
2. Name of Operator LEGACY RESER	RVES OPERATING LP				9. API Well No. 3002	2520338	
3a. Address 15 SMITH ROAD SUITE	- 0000, MIDE/ (IVD, 177 75)	one No. (includ	le area code)	10. Field and Pool or		ea
A. I. C. C.W. II /E	` '	689-5200			LEA; Bone Spring		
4. Location of Well (Footage, Sec., T.,R. SEC 13/T20S/R34E/NMP	.,M., or Survey Description)				11. Country or Parish	i, State	
	CK THE APPROPRIATE BOX(ES)	TO INDICAT	ENATURE	OF NOTI		HER DATA	
	THE ALL ROLRIATE BOX(ES)	TO INDICAL			<u> </u>	IILK DAIA	
TYPE OF SUBMISSION			TYF	PE OF AC			
✓ Notice of Intent	Acidize Alter Casing	_ Deepen _ Hydraulic F	racturing	=	uction (Start/Resume) amation	=	Shut-Off ntegrity
	Casing Repair	New Constr		=	omplete	Other	negity
Subsequent Report	Change Plans	Plug and Al		=	porarily Abandon		
Final Abandonment Notice	Convert to Injection	Plug Back		Wate	er Disposal		
3240-3137'. WOC & Tag (B/Sa & Tag (13 3/8" Shoe). 6. Perf &	cmt on top. 2. Perf & Sqz 50 sx olt). 4. Perf & Sqz 50 sx cmt @ 18	880-1780'. W	OC & Tag ((T/Salt). 5	. Perf & Sqz 50 sx c	mt @ 1427-13	327'. WOC
14. I hereby certify that the foregoing is MELANIE REYES / Ph: (432) 221-6		Title	Compliand	ce Coordii	nator		
Signature Date					10/27/2	2022	
cepted for record – NMOCD gc 11/1	0/2022 THE SPACE FOR	FEDERA	L OR ST	ATE OF	ICE USE		
Approved by							
KEITH P IMMATTY / Ph: (575) 988-4722 / Approved			ENGI Title	INEER		Date	11/10/2022
Conditions of approval, if any, are attach certify that the applicant holds legal or ewhich would entitle the applicant to conditions.	quitable title to those rights in the su		Office CA	RLSBAD		2	
Title 18 U.S.C Section 1001 and Title 43 any false, fictitious or fraudulent stateme				ly and will	fully to make to any d	epartment or ag	gency of the United States

(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 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 St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

(Form 3160-5, page 2)

Additional Information

Location of Well

 $0.\ SHL:\ SESW\ /\ 660\ FSL\ /\ 1980\ FWL\ /\ TWSP:\ 20S\ /\ RANGE:\ 34E\ /\ SECTION:\ 13\ /\ LAT:\ 0.0\ /\ LONG:\ 0.0\ (\ TVD:\ 0\ feet,\ MD:\ 0\ feet)$

 $BHL: SESW \,/\,\, 660\,\, FSL \,/\,\, 1980\,\, FWL \,/\,\, TWSP: \,20S \,/\,\, SECTION: \,/\,\, LAT: \,0.0 \,/\,\, LONG: \,0.0 \,(\,\, TVD: \,0\,\, feet, \,MD: \,0\,\, feet\,)$

- 1. Tag 7" CIBP @ 7365' w/ 35' cmt on top. No pressure test needed, MIT conducted at TA
- 2. Perf & Sqz 90 sx cmt @ 5746-5480'. WOC & Tag (9 5/8" Shoe). Including Delaware
- 3. Yates: 3627-3491'. 50sx. Perf and sqz. WOC, Tag and verify
- 4. Perf & Sqz 50 sx cmt @ 3240-3105'. WOC & Tag (B/Salt).
- 5. Perf & Sqz 50 sx cmt @ 1880-1761'. WOC & Tag (T/Salt).
- 6. Perf & Sqz 50 sx cmt @ 1427-1313'. WOC & Tag (13 3/8" Shoe).

Depth adjusted above, 10% excess per 1000' by length

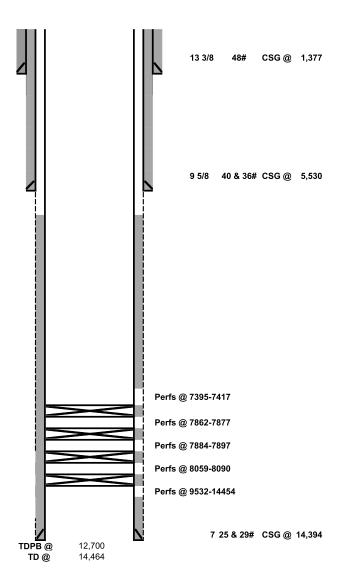
- 7. Perf & Sqz 55 sx cmt @ 200' to surface.
- 8. Cut off well head, verify cmt at surface, weld on Dry Hole Marker.



Digitally signed by KEITH IMMATTY Date: 2022.11.10 09:41:37 -07'00'

Legacy Rese	erves	CURRENT			
Author:	Abby BCM				
Well Name	Lea Unit	Well No.	#11		
Field/Pool	Lea Bone Springs	API#:	30-025-20338		
County	Lea	Location:	Sec 13, T20S, R34E		
State	NM	_	660 FSL & 1980 FWL		
Spud Date	4/25/1994	GL:	3676		
I -					

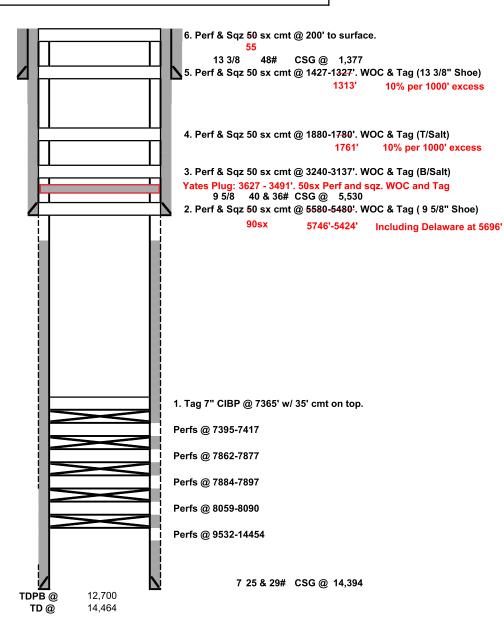
Description	O.D.	Grade	Weight	Depth	Hole	Cmt Sx	TOC
Surface Csg	13 3/8	H40	48#	1,377	17 1/2	1,170	0
Inter Csg	9 5/8	J55	40 & 36#	5,530	12 1/4	1,250	0
Prod Csg	7	P110, N80, S95	25 & 29#	14,394	8 3/4	1,285	6,955



Formation	Тор
Anhy	1700
T/Salt	1830
B/Salt	3187
Yates	3577
Bone Springs	8283
Basal Leo	10827
Wolfcamp	11183
Strawn	12031
Bend	12375
Miss	13577
Woodforf	14171
Dev	14358

Legacy Rese	erves	PROPOSED			
Author:	Abby BCM				
Well Name	Lea Unit	Well No.	#11		
Field/Pool	Lea Bone Springs	API#:	30-025-20338		
County	Lea	Location:	Sec 13, T20S, R34E		
State	NM	-	660 FSL & 1980 FWL		
Spud Date	4/25/1994	GL:	3676		
Spud Date _	4/23/1334	_ GL	3070		

Description	O.D.	Grade	Weight	Depth	Hole	Cmt Sx	TOC
Surface Csg	13 3/8	H40	48#	1,377	17 1/2	1,170	0
Inter Csg	9 5/8	J55	40 & 36#	5,530	12 1/4	1,250	0
Prod Csg	7	P110, N80, S95	25 & 29#	14,394	8 3/4	1,285	6,955



Formation	Тор
Anhy	1700
T/Salt	1830
B/Salt	3187
Yates	3577
Bone Springs	8283
Basal Leo	10827
Wolfcamp	11183
Strawn	12031
Bend	12375
Miss	13577
Woodforf	14171
Dev	14358
·	

Sundry ID 2700032

Cultury ID	2700002					
Plug Type	Тор	Bottom	Length	Tag	Sacks	Notes
				Verify		
				circulated		
Surface Plug	0.00	200.00	200.00	to surface	55.00	Perf and sqz
				WOC and		
Shoe Plug	1313.23	1427.00	113.77	Tag	50.00	Perf and sqz
				WOC and		
Top of Salt @ 1830	1761.70	1880.00	118.30	Tag	50.00	Perf and sqz
				WOC and		
Base of Salt @ 3187	3105.13	3237.00	131.87	Tag	50.00	Perf and sqz
				WOC and		
Yates @ 3577	3491.23	3627.00	135.77	Tag	50.00	Perf and sqz
				WOC and		
Shoe Plug	5424.70	5580.00	155.30	Tag	90.00	Same as below
				WOC and		
Delaware @ 5696	5589.04	5746.00	156.96	Tag	90.00	Perf and sqz
TOC 6955						
CIBP Plug	7330.00	7365.00	35.00	Verify		Already tested

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 ft^3/sx Class H: 1.06 ft^3/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			500.00
Shoe @ Shoe @ Shoe @	1377.00 5530.00 14394.00			
Perforatons Top @	7395.00	Perforations	14454.00	
		CIBP @	7365.00	

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 <u>ninety (90)</u> 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. <u>Notification:</u> 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. <u>Blowout Preventers</u>: 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. <u>Mud Requirement:</u> 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. <u>Cement Requirement</u>: 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 10th 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. <u>Subsequent Plugging Reporting:</u> 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. <u>Trash:</u> 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 1st through June 15th 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 predisturbance 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

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 157725

COMMENTS

Operator:	OGRID:
LEGACY RESERVES OPERATING, LP	240974
15 Smith Road	Action Number:
Midland, TX 79705	157725
	Action Type:
	[C-103] NOI Plug & Abandon (C-103F)

COMMENTS

Created By	Comment	Comment Date
plmartinez	DATA ENTRY PM	11/10/2022

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

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 157725

CONDITIONS

Operator:	OGRID:
LEGACY RESERVES OPERATING, LP	240974
15 Smith Road	Action Number:
Midland, TX 79705	157725
	Action Type:
	[C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
gcordero	None	11/10/2022