

Well Name: APACHE	Well Location: T24N / R4W / SEC 1 / NWSE /	County or Parish/State: RIO ARRIBA / NM
Well Number: 113	Type of Well: OIL WELL	Allottee or Tribe Name: JICARILLA APACHE
Lease Number: JIC126	Unit or CA Name:	Unit or CA Number:
US Well Number: 300392181400S1	Well Status: Producing Oil Well	Operator: ENERVEST OPERATING LLC

Notice of Intent

Sundry ID: 2641322

Type of Submission: Notice of Intent	Type of Action: Plug and Abandonment
Date Sundry Submitted: 10/22/2021	Time Sundry Submitted: 12:39
Date proposed operation will begin: 01/31/2022	

Procedure Description: Enervest Operating, LLC would like to plug and abandon this well per the attached procedure. The reclamation plan is also attached.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- Apache\_113\_3003921814\_Proposed\_Wellbore\_20211022123903.pdf
- Apache\_113\_3003921814\_PA\_Procedure\_20211022123903.pdf
- Apache\_113\_3003921814\_Reclamation\_Plan\_20211022123903.pdf

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<b>US Well Number:</b> 300392181400S1	<b>Well Status:</b> Producing Oil Well	<b>Operator:</b> ENERVEST OPERATING LLC

Conditions of Approval

Additional Reviews

2641322\_NOIA\_113\_3003921814\_KR\_1215202\_20211215153446.pdf

General\_Requirement\_PxA\_20211215153206.pdf

24N04W01JKd\_Apache\_113\_20211215151025.pdf

Operator Certification

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 submission of Form 3160-5 or a Sundry Notice.

<b>Operator Electronic Signature:</b> AMY ARCHULETA	<b>Signed on:</b> OCT 22, 2021 12:39 PM
<b>Name:</b> ENERVEST OPERATING LLC	
<b>Title:</b> Regulatory Supervisor	
<b>Street Address:</b> 2700 FARMINGTON AVE., BLDG K SUITE 1	
<b>City:</b> FARMINGTON	<b>State:</b> NM
<b>Phone:</b> (505) 325-0318	
<b>Email address:</b> AARCHULETA@HIGHRIVERLLC.COM	

Field Representative

<b>Representative Name:</b>		
<b>Street Address:</b>		
<b>City:</b>	<b>State:</b>	<b>Zip:</b>
<b>Phone:</b>		
<b>Email address:</b>		

BLM Point of Contact

<b>BLM POC Name:</b> KENNETH G RENNICK	<b>BLM POC Title:</b> Petroleum Engineer
<b>BLM POC Phone:</b> 5055647742	<b>BLM POC Email Address:</b> krennick@blm.gov
<b>Disposition:</b> Approved	<b>Disposition Date:</b> 12/15/2021
<b>Signature:</b> Kenneth Rennick	

## PLUG AND ABANDONMENT PROCEDURE

9/30/21

### Apache 113 Jic 126

West Lindrith – Gallup Dakota

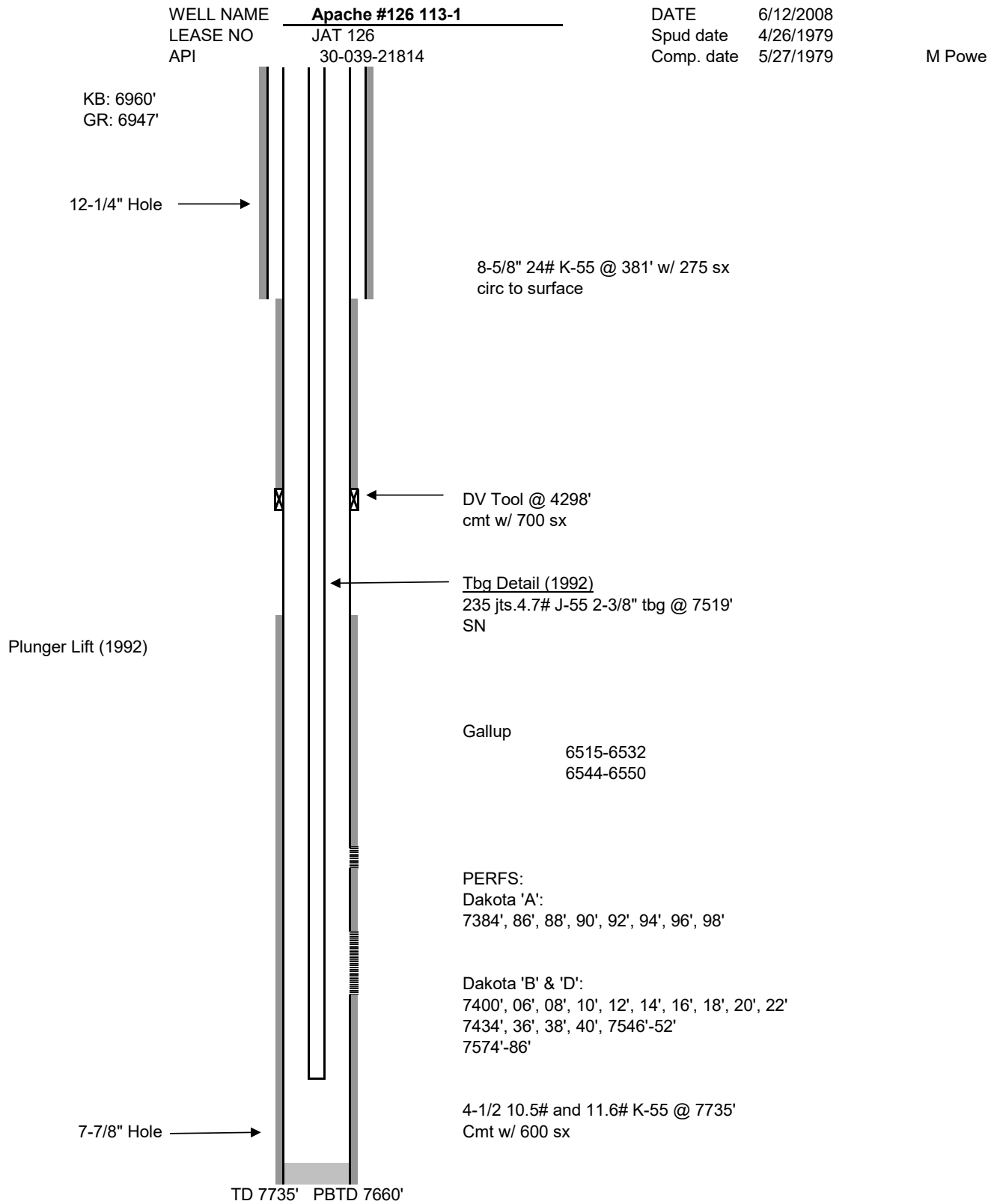
2010' FSL, 2070' FEL, Section 1, T24N, R4W, Rio Arriba County, New Mexico

API 30-039-21814

Note: All cement volumes use 100% excess outside pipe and 50' excess inside. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be Class G, mixed at 15.8 ppg with a 1.15 cf/sx yield.

1. This project will use an A-Plus steel tank to handle waste fluids circulated from the well and cement wash up.
2. Install and test location rig anchors. Comply with all NMOCD, BLM, and Operator safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. Record casing, tubing and bradenhead pressures. NU relief line and blow down well. Kill well with water as necessary and at least pump tubing capacity of water down the tubing. ND wellhead and NU BOP. Function test BOP.
3. **Plug #1 (Dakota perforations and top, 7334' – 7234')**: R/T 4.5" gauge ring or mill to 7344' or as deep as possible. RIH and set 4.5" CR at 7334'. Pressure test tubing to 1000#. Attempt to pressure test casing to 800#. If casing does not test then spot or tag subsequent plugs as necessary. Mix and pump 12 sxs Class G cement and spot a balanced plug inside casing to isolate the Dakota interval. PUH.
4. **Plug #2 (Gallup top, 6500' – 6450')**: Mix and pump 12 sxs Class G cement and spot a balanced plug inside casing to cover the Gallup top. PUH.
5. **Plug #3 (Mancos top, 5190' – 5090')**: Mix and pump 12 sxs Class G cement and spot a balanced plug inside casing to cover the Mancos top. PUH.
6. **Plug #4 (Mesaverde top, 4877' - 4777')**: Perforate squeeze holes at 4877'. Establish injection rate. RIH and set 4.5" CR @ 4827'. Mix and pump 52 sxs Class G cement, squeeze 40 sxs outside casing and leave 12 sxs inside to cover the Mesaverde top. TOH.
7. **Plug #5 (Chacra top, 3770' – 3670')**: Mix and pump 12 sxs Class G cement and spot a balanced plug inside casing to cover the Chacra top. PUH.
8. **Plug #6 (Pictured Cliffs, Fruitland, Kirtland and Ojo Alamo tops, 3216' – 2650')**: Mix and pump 48 sxs Class G cement and spot a balanced plug inside casing to cover PC through the Ojo Alamo top. TOH.
9. **Plug #6 (Nacimiento top, 1450' – 1350')**: Perforate squeeze holes at 1450'. Establish injection rate. RIH and set 4.5" CR @ 1400'. Mix and pump 52 sxs Class G cement, squeeze 40 sxs outside casing and leave 12 sxs inside to cover the Nacimiento top. TOH.

10. **Plug #7 (8-5/8" Surface casing shoe and Surface, 443' - Surface):** Perforate 4 squeeze holes at 431'. Establish circulation out bradenhead with water and circulate the BH annulus clean. Mix approximately 140 sxs Class G cement and pump down the 4.5" casing to circulate good cement out bradenhead. Shut in well and WOC.
11. ND cementing valves and cut off wellhead. Fill annuli with cement as necessary. Install P&A marker to comply with regulations. Record GPS coordinate for P&A marker on tower report. Photograph P&A marker in place. RD, MOL and cut off anchors. Restore location per BLM stipulations

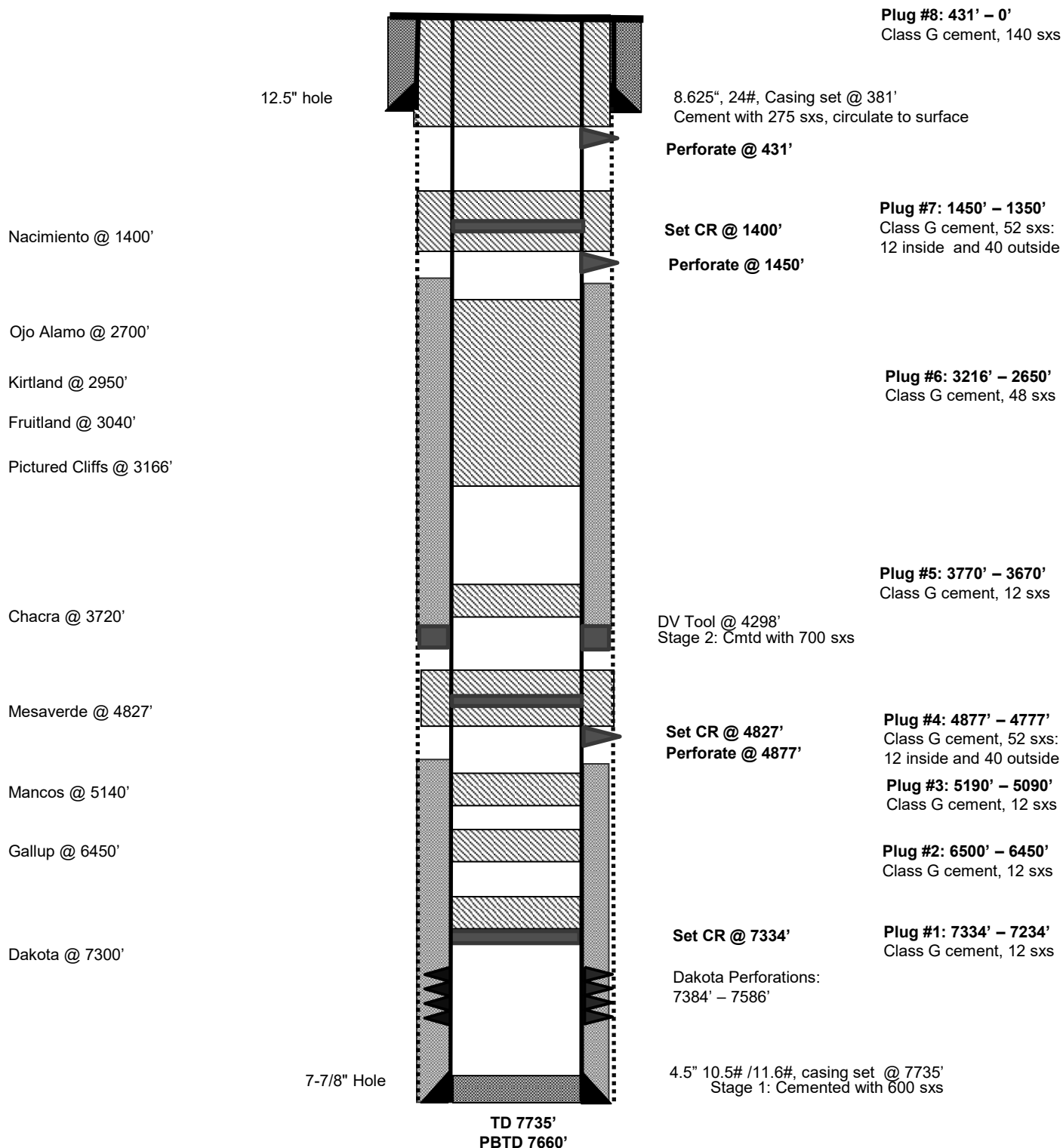


**Apache 113 Jic 126****Proposed P&A****West Lindrith – Gallup Dakota**

Today's Date: 9/30/21

2010' FSL, 2070' FEL, Section 1, T-24-N, R-4-W,

Rio Arriba County, NM API #30-039-21814



# BLM FLUID MINERALS P&A Geologic Report

**Date Completed:** 12/15/2021

Well No. Apache #113 (API# 30-039-21814)	Location	2010	FSL	&	2070	FEL
Lease No. Jicarilla Contract 126	Sec. 01	T24N			R04W	
Operator EnerVest Operating, LLC	County	Rio Arriba		State	New Mexico	
Total Depth 7735'	PBTD 7660'	Formation Dakota				
Elevation (GL) 6947'		Elevation (KB) 6960'				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm			Surface	1250	Surface/freshwater sands
Nacimiento Fm			1250	2575	Freshwater sands
Ojo Alamo Ss			2575	2950	Aquifer (possible freshwater)
Kirtland Shale			2950	3040	
Fruitland Fm			3040	3166	Coal/Gas/Possible water
Pictured Cliffs Ss			3166	3250	Gas
Lewis Shale			3250	4035	
Chacra			4035	4827	Gas
Cliff House Ss			4827	4860	Water/Possible gas
Menefee Fm			4860	5330	Coal/Ss/Water/Possible O&G
Point Lookout Ss			5330	5520	Probable water/Possible O&G
Mancos Shale			5520	6450	
Gallup			6450	7300	O&G/Water
Greenhorn			7300	7360	
Graneros Shale			7360	7380	
Dakota Ss			7380	PBTD	O&G/Water

Remarks:

P & A

- BLM formation top picks for the Dakota, Graneros, Greenhorn, Mancos, Chacra, Ojo Alamo and Nacimiento vary from Operator submission.

- No CBL on file.

- Adjust Plug #3 (Mancos) to cover BLM formation top pick at 5520.

- Adjust Plug #5 (Chacra) to cover BLM formation top pick at 4035'.

- Bring the top of Plug #6 (Pictured Cliffs, Fruitland, Kirtland and Ojo Alamo) up to 2525' to cover BLM formation top pick for the Ojo Alamo.

- Adjust Plug #7 (Nacimiento) to cover BLM formation top pick at 1250'.

- The plugs proposed in the P&A procedure, with changes recommended above, will adequately protect any freshwater sands in this well bore.

- Dakota perms 7384 – 7586'.

Reference Well:

1) **Formation Tops**  
Same

Prepared by: Chris Wenman

**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
FARMINGTON DISTRICT OFFICE  
6251 COLLEGE BLVD.  
FARMINGTON, NEW MEXICO 87402**

Attachment to notice of  
Intention to Abandon

Re: Permanent Abandonment  
Well: Jicarilla Contract 113

**CONDITIONS OF APPROVAL**

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
2. The following modifications to your plugging program are to be made:
  - a) Plug 3 (Mancos): Adjust plug to cover BLM formation top pick at 5520 feet.
  - b) Plug 5 (Mancos): Adjust plug to cover BLM formation top pick at 4035 feet.
  - c) Plug 6 (Pictured Cliffs, Fruitland, Kirtland, and Ojo Alamo): Bring the top up to 2525 feet to cover BLM formation top pick for the Ojo Alamo.
  - d) Plug 7 (Nacimiento): Adjust plug to cover BLM formation top pick at 1250 feet.
3. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 564-7750.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.

K. Rennick 12/15/2021



**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 67675

CONDITIONS

Operator: High River Resources Operating, LLC 2700 Farmington Ave FARMINGTON, NM 87401	OGRID: 328985
	Action Number: 67675
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	CBL required	12/21/2021
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	12/21/2021
kpickford	Adhere to BLM approved plugs and COAs. See GEO Report	12/21/2021