

<b>Well Name:</b> APACHE	<b>Well Location:</b> T24N / R4W / SEC 4 / NESE /	<b>County or Parish/State:</b> RIO ARRIBA / NM
<b>Well Number:</b> 124	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b> JICARILLA APACHE
<b>Lease Number:</b> JIC127	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3003921887	<b>Well Status:</b> Producing Oil Well	<b>Operator:</b> ENERVEST OPERATING LLC

**Notice of Intent**

**Sundry ID:** 2630903

**Type of Submission:** Notice of Intent

**Type of Action:** Plug and Abandonment

**Date Sundry Submitted:** 08/26/2021

**Time Sundry Submitted:** 12:54

**Date proposed operation will begin:** 10/15/2021

**Procedure Description:** Please see attached plugging procedure and reclamation plan.

**Surface Disturbance**

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

**NOI Attachments**

**Procedure Description**

Apache\_124\_03921887\_ReclamationPlan\_20210831091151.pdf

Apache\_124\_03921887\_PA\_procedure\_20210831091150.pdf

Apache\_124\_03921887\_proposed\_WB\_20210831091150.pdf

**Well Name:** APACHE

**Well Location:** T24N / R4W / SEC 4 / NESE /

**County or Parish/State:** RIO ARRIBA / NM

**Well Number:** 124

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**Allottee or Tribe Name:** JICARILLA APACHE

**Lease Number:** JIC127

**Unit or CA Name:**

**Unit or CA Number:**

**US Well Number:** 3003921887

**Well Status:** Producing Oil Well

**Operator:** ENERVEST OPERATING LLC

### Conditions of Approval

#### Additional Reviews

General\_Requirement\_PxA\_20211215110433.pdf

2630903\_NOIA\_124\_3003921887\_KR\_12152021\_20211215110412.pdf

Apache\_124\_Geo\_Rpt\_20211130114738.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.*

**Operator Electronic Signature:** AMY ARCHULETA

**Signed on:** AUG 31, 2021 09:13 AM

**Name:** ENERVEST OPERATING LLC

**Title:** Regulatory Supervisor

**Street Address:** 2700 FARMINGTON AVE., BLDG K SUITE 1

**City:** FARMINGTON

**State:** NM

**Phone:** (505) 325-0318

**Email address:** AARCHULETA@HIGHRIVERLLC.COM

### Field Representative

**Representative Name:**

**Street Address:**

**City:**

**State:**

**Zip:**

**Phone:**

**Email address:**

### BLM Point of Contact

**BLM POC Name:** KENNETH G RENNICK

**BLM POC Title:** Petroleum Engineer

**BLM POC Phone:** 5055647742

**BLM POC Email Address:** krennick@blm.gov

**Disposition:** Approved

**Disposition Date:** 12/15/2021

**Signature:** Kenneth Rennick

## PLUG AND ABANDONMENT PROCEDURE

3/1/2021

### Apache 127 #124

West Lindrith – Gallup Dakota

1940' FSL, 660' FEL, Section 4, T24N, R4W, Rio Arriba County, New Mexico

API 30-039-21887 / Long \_\_\_\_\_ / \_\_\_\_\_

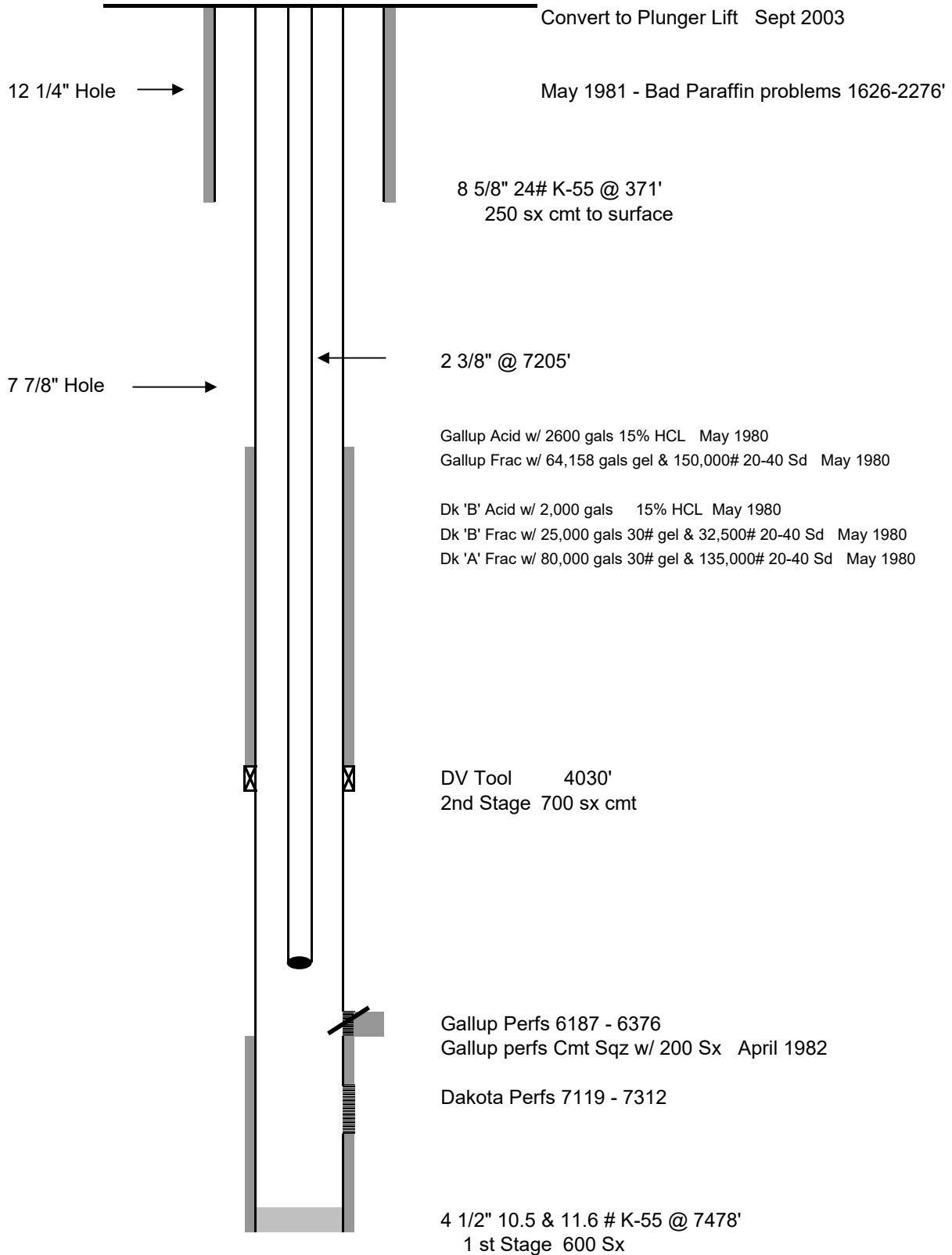
Note: All cement volumes use 100% excess outside pipe and 50' excess inside. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be Class G, mixed at 15.8 ppg with a 1.15 cf/sx yield.

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, 7069' - 6969'** R/T 4.5" gauge ring or mill to 7021'. RIH and set 4.5" CR at 7069'. 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, 6273' - 6173')**: 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, 5333' - 5233')**: 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, 4540' - 4440')**: Mix and pump 12 sxs Class G cement and spot a balanced plug inside casing to cover the Mesaverde top. PUH.
7. **Plug #5 (Chacra top, 3833' - 3733')**: Mix and pump 12 sxs Class G cement inside to cover the Chacra top. PUH.
8. **Plug #6 (Pictured Cliffs, Fruitland, Kirtland and Ojo Alamo tops, 2900' - 2093')**: Mix and pump 67 sxs Class G cement and spot a balanced plug inside casing to cover PC through the Ojo Alamo top. TOH.
9. **Plug #7 (Nacimiento top, 822' - 722')**: Perforate squeeze holes at 822'. Establish injection rate. RIH and set 4.5" CR @ 772'. Mix and pump 51 sxs Class G cement, squeeze 40 sxs outside casing and leave 12 sxs inside to cover the Nacimiento top. TOH.
10. **Plug #8 (8-5/8" Surface casing shoe and Surface, 421' - Surface)**: Perforate 4 squeeze holes at 421'. Establish circulation out bradenhead with water and circulate the BH annulus clean. Mix approximately

133 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

<b>WELL NAME</b>	<u>APACHE 124</u>	<b>DATE</b>	<u>8/9/2000</u>
<b>LEASE NO</b>	<u>JAT 127</u>	<b>SPUD</b>	<u>5/1/1980</u>
<b>Location</b>	<u>Sec 4, T 24N, R 4W</u>	<b>API</b>	<u>30-039-21887</u>



1998 Left 1" x 12" strainer nipple and Standing valve in well. Broke off pump.

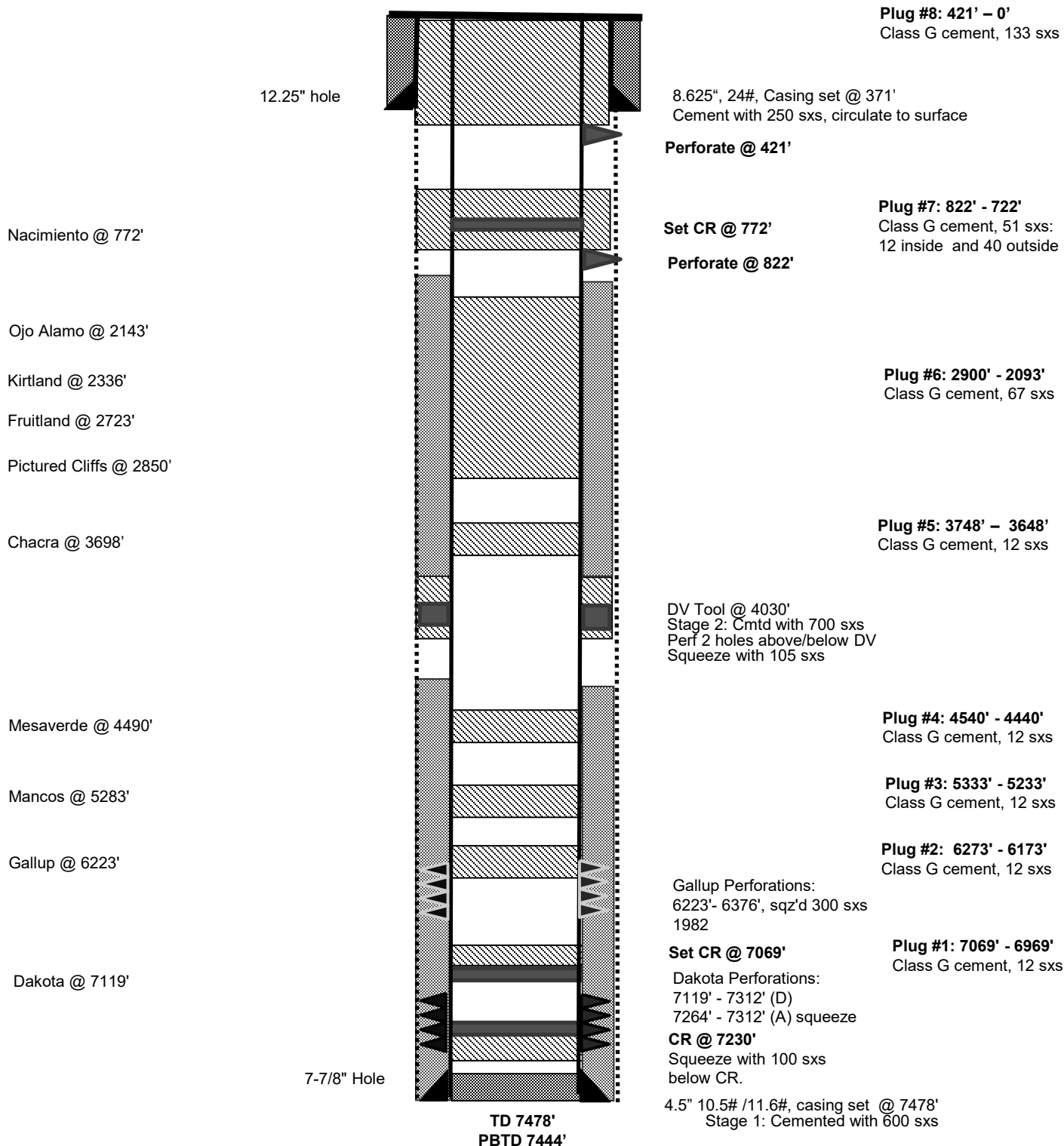
# Apache 127 #124

## Proposed P&A

### West Lindrith – Gallup Dakota

Today's Date: 3/1/2021

1940' FSL, 660' FEL, Section 4, T-24-N, R-4-W,  
Rio Arriba County, NM API #30-039-21887



**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: Apache 124

**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 2: TOC must be extended to 6113 feet and the base extended down to 6263 feet to account for a moved top and required excess.
  - b) Plug 3: TOC must be extended to 5155 feet and the base extended down to 5305 feet to account for a moved top and required excess.
  - c) Plug 4: TOC must be extended to 4450 feet and the base extended down to 4600 feet to account for a moved top and required excess.
  - d) Plug 5: TOC should be extended to 3660 feet and the base extended down to 3810 feet to account for a moved top and excess cement.
  - e) Plug 7: TOC must be extended to 610 feet and the base extended down to 760 feet to account for a moved top and required excess.
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

**BLM - FFO - Geologic Report**

**Date Completed** 11/30/2021

Well No. Apache # 124 Surf. Loc. 1940 FSL 660 FEL  
 Sec. 4 T24N R4W

Lease No. NMSF078464

Operator Enervest Operating LLC County San Juan State New Mexico  
 TVD 7478 PBDT 7444 Formations Tg/dk  
 Elevation GL 6800 Elevation Est. KB 6813

Geologic Formations	Est. tops	Subsea Elev.	Remarks
San Jose Fm.	Surface	6800	
Nacimiento Fm.	710	6103	Surface /fresh water sands
Ojo Alamo Ss	2220	4593	Fresh water aquifer
Kirtland Fm.	2390	4423	
Fruitland Fm.	2540	4273	Coal/gas/possible water
Pictured Cliffs	2795	4018	Possible water
Lewis Shale (Main)	2930	3883	Source rock
Huerfanito Bentonite	3285	3528	Reference bed
Chacra (lower)	3760	3053	Possible gas/water
Cliff House Ss	4550	2263	Water
Menefee Fm.	4580	2233	Coal/water/possible gas
Point Lookout Fm.	5082	1731	Possible gas/water
Mancos Shale	5255	1558	Source rock
Gallup	6213	600	Oil & gas
Graneros Shale	7029	-216	
Dakota Ss	7109	-296	Possible gas/water

Remarks:

Reference Map and Wells:

-Vertical wellbore, all formation depths are TVD from KB  
 --The Cliff House should be used as the top of the Mesa Verde for plugging purposes.  
 -Many of the plugs must be modified to cover the BLM formation depths:  
 Plug 1 is acceptable.  
 The Plug 2 TOC must be extended to 6113' and the base extended down to 6263' to account for a moved top and required excess.  
 The Plug 3 TOC must be extended to 5155' and the base extended down to 5305' to account for a moved top and required excess.  
 The Plug 4 TOC must be extended to 4450' and the base extended down to 4600' to account for a moved top and required excess.  
 The Plug 5 TOC should be extended to 3660' and the base extended down to 3810' to account for a moved top and excess cement.  
 Plugs 6 is acceptable.  
 The Plug 7 TOC must be extended to 610' and the base extended down to 760' to account for a moved top and required excess.  
 Plug 8, the surface plug, is acceptable.

1) Fm Tops  
 Enervest Operating LLC  
 Same

Prepared by: Walter Gage



**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 67674

**CONDITIONS**

Operator: High River Resources Operating, LLC 2700 Farmington Ave FARMINGTON, NM 87401	OGRID: 328985
	Action Number: 67674
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

**CONDITIONS**

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