

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT Sundry Print Report

Well Name: SERENDIPITY Well Location: T26N / R13W / SEC 26 / County or Parish/State: SAN

Well Number: 3R Type of Well: OTHER Allottee or Tribe Name:

Lease Number: NMSF081028A Unit or CA Name: W2, FRCL Unit or CA Number:

NMNM101829

**US Well Number:** 300453081100S1 **Well Status:** Gas Well Shut In **Operator:** MUSTANG

RESOURCES LLC

### **Notice of Intent**

**Sundry ID: 2642611** 

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 11/03/2021 Time Sundry Submitted: 07:53

Date proposed operation will begin: 12/09/2021

**Procedure Description:** Mustang requests approval to Plug & Abandon the Serendipity 3R. Attached are a current wellbore diagram, proposed P&A procedure, cement calculations, and post-P&A wellbore diagram.

## **Surface Disturbance**

Is any additional surface disturbance proposed?: No

### **NOI Attachments**

### **Procedure Description**

 $Serendipity\_3R\_PxA\_Cement\_Calculations\_20211103075010.pdf$ 

 $Serendipity\_3R\_PxA\_Post\_WBD\_20211103074958.pdf$ 

 $Serendipity\_3R\_PxA\_Procedure\_20211103074949.pdf$ 

Serendipity\_3R\_PxA\_Current\_WBD\_20211103074936.pdf

Page 1 of 2

Well Location: T26N / R13W / SEC 26 / County or Parish/State: SAN

SWSW / 36.453871 / -108.193165

Well Number: 3R Type of Well: OTHER Allottee or Tribe Name:

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NMNM101829

JUAN / NM

**US Well Number:** 300453081100S1 **Well Status:** Gas Well Shut In **Operator:** MUSTANG

RESOURCES LLC

# **Conditions of Approval**

### **Additional Reviews**

General\_Requirement\_PxA\_20211209113136.pdf

2642611\_NOIA\_Serendipity\_3R\_3004530811\_KR\_12092021\_20211209113113.pdf

26N13W26MKpc\_Serendipity\_3R\_20211209110453.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: DEB LEMON Signed on: NOV 03, 2021 08:02 AM

Name: MUSTANG RESOURCES LLC

Title: RegulatoryManager

Street Address: 1660 Lincoln St., Ste 1450

City: Denver State: CO

Phone: (720) 550-7507

Email address: dlemon@mustangresourcesllc.com

## **Field Representative**

Representative Name: Don Johnson Street Address: 1220 S. Main Avenue

City: Aztec State: NM Zip: 87410

Phone: (505)334-9111

Email address: djohnson@mustangresourcesllc.com

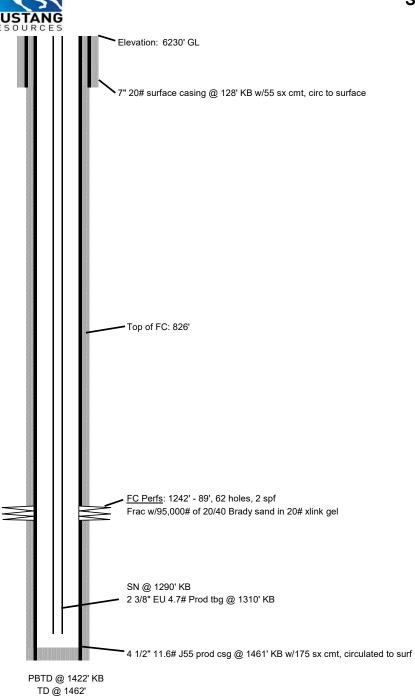
# **BLM Point of Contact**

Signature: Kenneth Rennick

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:** 12/09/2021



# Serendipity 3R

Location: Surface: 691' FSL, 1268' FWL,

Sec 26, T26N, R13W, San Juan

County, New Mexico

Field: Basin FC

Zone: Fruitland Coal

API#: 30-045-30811

Spud Date: December 16, 2002

Revised: 8/22/11

10/12/2005 1 3/4" x 12' RWAC pump 50 ea 3/4" plain rods 2 ea 8' pony rods

1 ea 6' pony rods 16" polish rod Company Na Mustang Resources LLC

Well Name: Serendipity 3R API Number: 30-045-30811

Location: 691' FSL, 1268' FWL, Sec 26, T26N, R13W

County: San Juan, NM

Note: Follow all BLM/NMOCD Rules and Regulations.

4-1/2", 11.6# Capacity	0.0873 ft3/ft	2-3/8", 4.7# Capacity	0.0217 ft3/ft
	0.0155 bbl/ft		0.0039 bbl/ft
ID	4.000 Inches		1.995 Inches

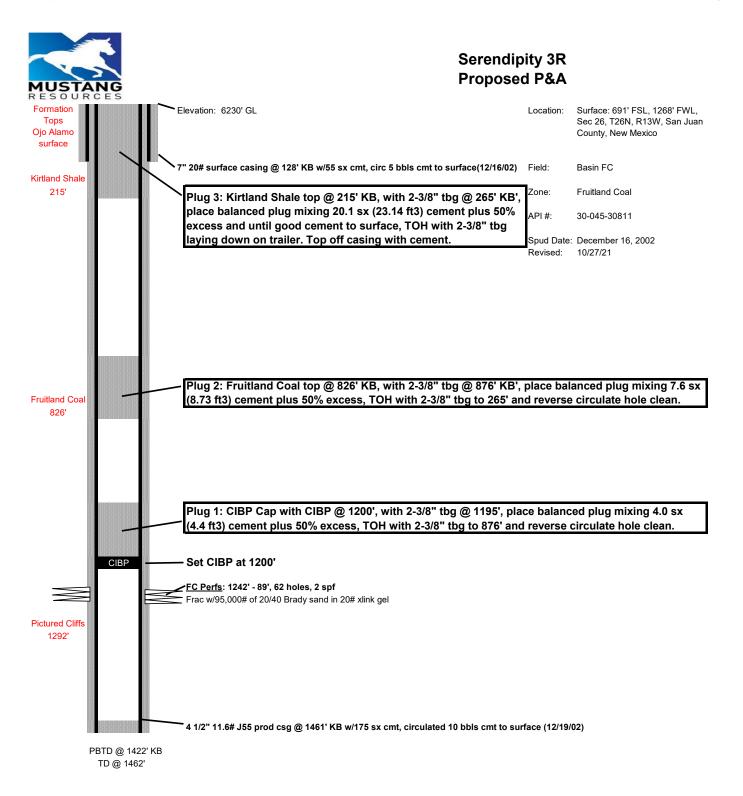
	1.555 Helics
<u>Step</u>	<u>Description</u>
	Proposed P&A Procedure
1	Back drag & clean location for crew & rig safety. Test anchors if needed, arrange for H20 on site
2	Prior to rig, verify wellhead conncections for any flanges and BOPE necessary.
3	Notify NMOCD/BLM 48 hours before commencing P&A operations
4	MIRU well service rig and associated P&A equipment
5	Bleed pressure from well to tank (well has very little pressure)
6	Pull Rods laying down
7	ND WH & NU BOP
8	Pull 2-3/8" Tubing (lay down any bad joints)
9	Ensure there is enough 2-3/8" workstring to complete job
10	TIH with 4.5" 11.6# casing scraper to 1250' w/2-3/8" tubing (use new workstring as needed)
11	TOH with 4.5" casing scraper
12	TIH with 4.5" CIBP w/2-3/8" tubing and Set @1200' KB
13	Release from CIBP and pull up hole to 1195' and circulate casing full with fresh water
14	Close Pipe Rams and pressure test casing to 560#
15	NOTE: No CBL required-Cement on record was cemented to surface behind 4-1/2 csg (12-19-02)
16	If pressure test is good, proceed, if does not pass, must wait a min of 4 hours & tag cmt tops
	Plug 1: CIBP Cap with CIBP @ 1200', with 2-3/8" tbg @ 1195', place balanced plug mixing
	4.0 sx (4.4 ft3) cement plus 50% excess, TOH with 2-3/8" tbg to 876' and reverse circulate
17	hole clean.
18	With tubing @ 876', circulate hole
	Plug 2: Fruitland Coal top @ 826' KB, with 2-3/8" tbg @ 876' KB', place balanced plug
	mixing 7.6 sx (8.73 ft3) cement plus 50% excess, TOH with 2-3/8" tbg to 265' and reverse
19	circulate hole clean.
20	With tubing @ 265', circulate hole
	Plug 3: Kirtland Shale top @ 215' KB, with 2-3/8" tbg @ 265' KB', place balanced plug
	mixing 20.1 sx (23.14 ft3) cement plus 50% excess and until good cement to surface, TOH
21	with 2-3/8" tbg laying down on trailer.
22	Top off cement in casing
	ND DOD I I I I I I I DOA I I I I I I I I I I I I I I I I I I I

ND BOP and cut off casing and install P&A marker to comply with regulations

RD and move off location

23

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P&A Sketch dlj

## Serendipity Com 3R

# **Proposed PxA Calculations**

# Proposed P&A Well Calculations OH/Casing/Tubing Details 4-1/2" 11.6# Capacity 0.0873 ft3/ft 2-3/8", 4.7# Capacity 0.0217 ft3/ft 0.0155 bbl/ft 0.0039 bbl/ft ID 4.000 Inches drift 1.995 Inches Landed @ 1310 feet KB

NOTE: Each Cement Job required to place cement as follows

- 1. OD of pipe 50' below and 50' above Formation Top with 100% excess
- 2. ID of pipe 50' below and 50' above Formation Top with 50% excess
- 3. ALL cement will be Class G, Density 15.8 ppg and Yield 1.15 cf/sx

Plug 1: CIBP Cap FC Top Perf 1242 f

CIBP @ 1200 Cement Top 1150

Open Hole Capacity (NA-cemented to Surface)

feet plus 50% excess Inside Pipe Capacity SXS 3.7957 ft3 4.365 100' Inside Casing ft3 2.1825 50% excess 6.5475 **Total ft3 Inside Pipe** ft3 ft3 7 Rounded up 1.29 **Total BBLS** bbls 6.09 **Total Sxs Cement** SXS

**Total Sxs Cement 6.09** 

Plug 1: CIBP Cap with CIBP @ 1200', with 2-3/8" tbg @ 1195', place balanced plug mixing 4.0 sx (4.4 ft3) cement plus 50% excess, TOH with 2-3/8" tbg to 876' and reverse circulate hole clean.

ft

Plug 2: Fruitland Coal Formation Top 826

Bttm of Plug @ 876 Cement Top 776

Open Hole Capacity (NA-cemented to Surface)

	100	feet plus	50% excess
sxs		Inside	Pipe Capacity
7.6	ft3	8.73	100' Inside Casing
	ft3	4.365	50% excess
	ft3	13.095	Total ft3 Inside Pipe
	ft3	14	Rounded up
	bbls	2.59	Total BBLS
	SXS	12.17	Total Sxs Cement

### **Total Sxs Cement 12.17**

Plug 2: Fruitland Coal top @ 826' KB, with 2-3/8" tbg @ 876' KB', place balanced plug mixing 7.6 sx (8.73 ft3) cement plus 50% excess, TOH with 2-3/8" tbg to 265' and reverse circulate hole clean.

Plug 3: Kirtland Shale Formation Top 215

Bttm of Plug @ 265 Cement Top 0

Open Hole Capacity (NA-cemented to Surface)

**Total Sxs Cement 30.43** 

Plug 3: Kirtland Shale top @ 215' KB, with 2-3/8" tbg @ 265' KB', place balanced plug mixing 20.1 sx (23.14 ft3) cement plus 50% excess and until good cement to surface, TOH with 2-3/8" tbg laying down on trailer. Top off casing with cement.

### BLM FLUID MINERALS P&A Geologic Report

**Date Completed:** 12/9/2021

Well No. Serendipity #3R (API	Location	691	FSL	&	1268	FWL	
Lease No. NMSF-081028-A	Sec. 26	T26N			R13W		
Operator Mustang Resources, LLC		County	San Juan		State	New Mexico	
Total Depth 1462'	PBTD 1422'	Formation	Fruitland	l coal			
Elevation (GL) 6230'	Elevation (KE	3) 6235'					

<b>Geologic Formations</b>	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm					
Nacimiento Fm	Surface	100			Surface/freshwater sands
Ojo Alamo Ss	100	215			Aquifer (freshwater)
Kirtland Shale	215	826			
Fruitland Fm	826	1292			Coal/Gas/Possible water
Pictured Cliffs Ss	1292	PBTD			Possible Gas
Lewis Shale					
Chacra					
Cliff House Ss					
Menefee Fm					
Point Lookout Ss					
Mancos Shale					
Gallup					
Greenhorn					
Graneros Shale					
Dakota Ss					

### Remarks:

### P & A

- Well log for subject well is not suitable for picking tops. Reference well #1 and subject well drilling information used to validate formation tops.
- CBL on file.
- Add a plug to cover the Pictured Cliffs top at 1292'.
- The plugs proposed in the P&A procedure, with changes as recommended above, will adequately protect any freshwater sands in this well bore.
- Fruitland perfs 1242' 1289'.

Reference Well:

1) **Formation Tops** Dugan Production Co. West Bisti Unit #137 660' FSL, 660' FWL Sec. 26, T26N, R13W GL 6228'

Prepared by: Chris Wenman

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT FARMINGTON DISTRICT OFFICE

6251 COLLEGE BLVD. FARMINGTON, NEW MEXICO 87402

AFMSS 2 Sundry ID 2642611

Attachment to notice of Intention to Abandon

Well: Serendipity 3R

### **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. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 564-7750.
- 3. Before or within 30 days after completing work, Mustang Resources LLC must contact a Farmington Field Office surface inspection staff to schedule a reclamation onsite.
- 4. The following modifications to your plugging program are to be made:
  - a) Add a plug to cover the Picture Cliffs formation top at 1292 feet.

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 12/09/2021

# GENERAL REQUIREMENTS FOR PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES FARMINGTON FIELD OFFICE

- 1.0 The approved plugging plans may contain variances from the following <u>minimum general</u> requirements.
  - 1.1 Modification of the approved plugging procedure is allowed only with the prior approval of the Authorized Officer, Farmington Field Office.
  - 1.2 Requirements may be added to address specific well conditions.
- 2.0 Materials used must be accurately measured. (densometer/scales)
- 3.0 A tank or lined pit must be used for containment of any fluids from the wellbore during plugging operations and all pits are to be fenced with woven wire. These pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced.
  - 3.1 Pits are not to be used for disposal of any hydrocarbons. If hydrocarbons are present in the pit, the fluids must be removed prior to filling in.
- 4.0 All cement plugs are to be placed through a work string. Cement may be bull-headed down the casing with prior approval. Cement caps on top of bridge plugs or cement retainers may be placed by dump bailer.
  - 4.1 The cement shall be as specified in the approved plugging plan.
  - 4.2 All cement plugs placed inside casing shall have sufficient volume to fill a minimum of 100' of the casing, or annular void(s) between casings, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.
  - 4.3 Surface plugs may be no less than 50' in length.
  - 4.4 All cement plugs placed to fill annular void(s) between casing and the formation shall be of sufficient volume to fill a minimum of 100' of the annular space plus 100% excess, calculated using the bit size, or 100' of annular capacity, determined from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.
  - 4.5 All cement plugs placed to fill an open hole shall be of sufficient volume to fill a minimum of 100' of hole, as calculated from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug. In the absence of a caliper log, an excess of 100% shall be required.
  - 4.6 A cement bond log or other accepted cement evaluation tool is required to be run if one had not been previously ran or cement did not circulate to surface during the original casing cementing job or subsequent cementing jobs.

2

- 5.0 All cement plugs spotted across, or above, any exposed zone(s), when; the wellbore is not full of fluid or the fluid level will not remain static, and in the case of lost circulation or partial returns during cement placement, shall be tested by tagging with the work string.
  - 5.1 The top of any cement plug verified by tagging must be at or above the depth specified in the approved plan, without regard to any excess.
  - 5.2 Testing will not be required for any cement plug that is mechanically contained by use of a bridge plug and/or cement retainer, if casing integrity has been established.
  - 5.3 Any cement plug which is the only isolating medium, for a fresh water interval or a zone containing a prospectively valuable deposit of minerals, shall be tested by tagging.
  - 5.4 If perforations are required below the surface casing shoe, a 30 minute minimum wait time will be required to determine if gas and/or water flows are present. If flow is present, the well will be shut-in for a minimum of one hour and the pressure recorded. Short or long term venting may be necessary to evacuate trapped gas. If only a water flow occurs with no associated gas, shut well in and record the pressures. Contact the Engineer as it may be necessary to change the cement weight and additives.
- 6.0 Before setting any cement plugs the hole needs to be rolled. All wells are to be controlled by means of a fluid that is to be of a weight and consistency necessary to stabilize the wellbore. This fluid shall be left in place as filler between all plugs.
  - 6.1 Drilling mud may be used as the wellbore fluid in open hole plugging operations.
  - 6.2 The wellbore fluid used in cased holes shall be of sufficient weight to balance known pore pressures in all exposed formations.
- 7.0 A blowout preventer and related equipment (BOPE) shall be installed and tested prior to working in a wellbore with any exposed zone(s); (1) that are over pressured, (2) where the pressures are unknown, or (3) known to contain  $H_2S$ .
- 8.0 Within 30 days after plugging work is completed, file a Sundry Notice, Subsequent Report of Abandonment (Form 3160-5), five copies, with the Field Manager, Bureau of Land Management, 6251 College Blvd., Suite A, Farmington, NM 87402. The report should show the manner in which the plugging work was carried out, the extent, by depth(s), of cement plugs placed, and the size and location, by depth(s), of casing left in the well. Show date well was plugged.
- 9.0 All permanently abandoned wells are to be marked with a permanent monument as specified in 43 CFR 3162.6(d). Unless otherwise approved.
- 10.0 If this well is located in a Specially Designated Area (SDA), compliance with the appropriate seasonal closure requirements will be necessary.

All of the above are minimum requirements. Failure to comply with the above conditions of approval may result in an assessment for noncompliance and/or a Shut-in Order being issued pursuant to 43 CFR 3163.1. You are further advised that any instructions, orders or decisions issued by the Bureau of Land Management are subject to administrative review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.

(October 2012 Revision)

Company Na Mustang Resources LLC

Well Name: Serendipity 3R API Number: 30-045-30811

Location: 691' FSL, 1268' FWL, Sec 26, T26N, R13W

County: San Juan, NM

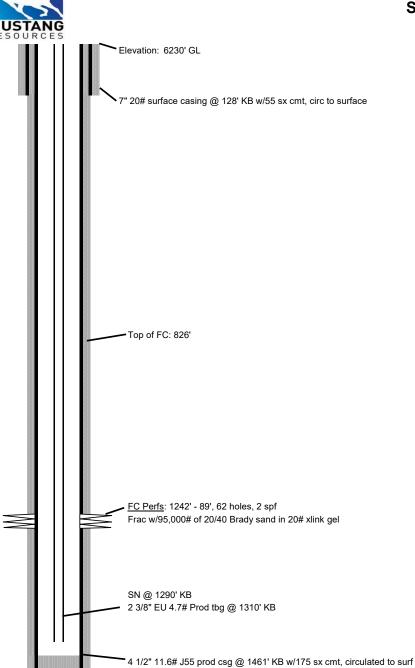
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<u>Step</u>	<u>Description</u>
	Proposed P&A Procedure
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RD and move off location

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Sec 26, T26N, R13W, San Juan

County, New Mexico

Field: Basin FC

Zone: Fruitland Coal

API#: 30-045-30811

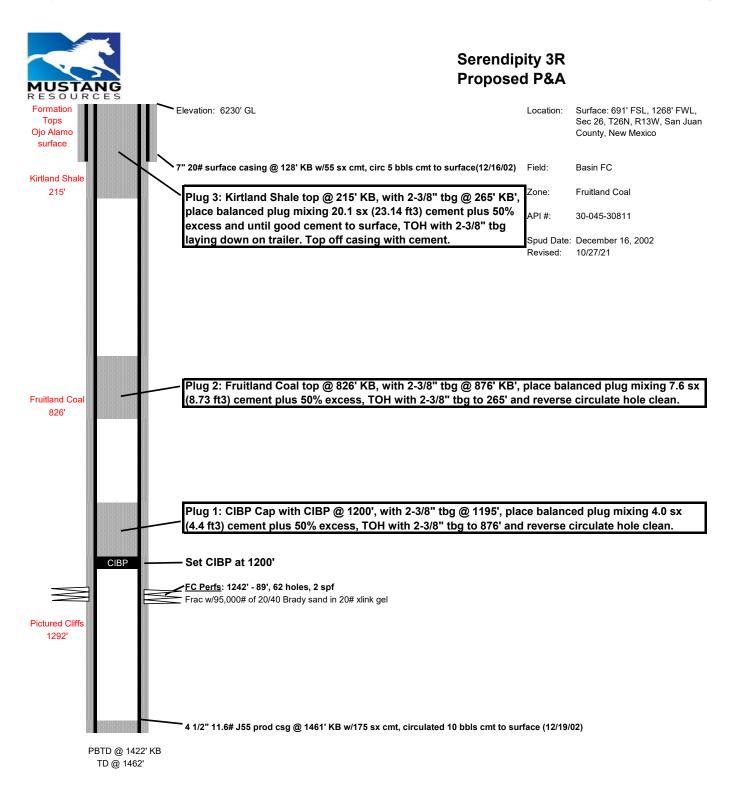
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10/12/2005 1 3/4" x 12' RWAC pump 50 ea 3/4" plain rods 2 ea 8' pony rods 1 ea 6' pony rods

16" polish rod

PBTD @ 1422' KB TD @ 1462'



P&A Sketch dlj

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 66856

### **CONDITIONS**

Operator:	OGRID:
Mustang Resources LLC	373495
1660 Lincoln Street	Action Number:
Denver, CO 80264	66856
	Action Type:
	[C-103] NOI Plug & Abandon (C-103F)

#### CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	12/16/2021
kpickford	Adhere to BLM approved plugs (See GEO report)	12/16/2021