

Form 3160-5  
(June 2019)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0137  
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.**5. Lease Serial No. **NMSF080565**

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other2. Name of Operator **LOGOS OPERATING LLC**3a. Address **2010 AFTON PLACE, FARMINGTON, NM 87401** 3b. Phone No. (include area code)  
**(505) 278-8720**4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**SEC 5/T25N/R3W/NMP**

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No. **FLORANCE FED/2**9. API Well No. **3003906178**10. Field and Pool or Exploratory Area  
**TAPACITO/TAPACITO**11. Country or Parish, State  
**RIO ARRIBA/NM****12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION				
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Please see attached P&amp;A Procedure for the Florence Federal 2

Accepted for record – NMOCD

JRH **05/02/2023**14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)  
**DACYE SHULL / Ph: (505) 324-4145**Title **REGULATORY TECH**

Signature

Date

**03/22/2023****THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

**KENNETH G RENNICK / Ph: (505) 564-7742 / Approved**Title **Petroleum Engineer**Date **04/05/2023**

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office **RIO PUERCO**

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.

(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

## **Additional Information**

### **Location of Well**

0. SHL: NENE / 1579 FNL / 912 FEL / TWSP: 25N / RANGE: 3W / SECTION: 5 / LAT: 36.431458 / LONG: -107.162449 ( TVD: 0 feet, MD: 0 feet )

BHL: NENE / 1579 FNL / 912 FEL / TWSP: 25N / SECTION: / LAT: 36.431458 / LONG: 107.162449 ( TVD: 0 feet, MD: 0 feet )



## Proposed Plug and Abandonment Procedure

### Florance Federal 2

API: 30-039-06178

#### Notes:

- LOGOS requests to P&A the subject well.
  - All cement volumes use 100% excess outside pipe and 50' excess inside.
  - All cement will be Class G with a 1.15 cf/sk yield or equivalent.
  - All plugs are subject to change pending CBL results.
1. Comply with all NMOCD, BLM, and LOGOS safety rules and regulations. Conduct safety meeting for all personnel on location.
  2. MOL and RU. Lay flow lines. Check and record bradenhead and casing pressures.
  3. POOH tubing and stand back joints that pass visual inspection.
  4. Set CR above liner top at ~3772' or within 40' higher.
  5. Roll hole with fresh water and pressure test the casing to 560 psi for 15 minutes.
    - a. If pressure test fails, WOC and tag and record each plug top and top off with more cement if necessary.
  6. Conduct cement bond log from the CR at 3772' to surface.
  7. **Send cement bond log results to NMOCD and BLM to verify cement volumes and inside/outside plugs.**
  8. **Plug #1: 3460'-3772' (Perforations: 3832' / TOL: 3782' / Fruitland top: 3650' / Kirtland top: 3580' / Ojo Alamo top: 3510'):** Mix and spot 42 sx Class G cement.
  9. **Plug #2: 1012'-1112' (Nacimiento top: 1062'):** Perforate squeeze holes at 1112'. Attempt to establish rate. TIH and set 5.5" CR at 1062'. Mix and pump 49 sx Class G cement, squeeze 31 sx outside casing and leave 18 sx inside casing.
  10. **Plug #3: 0'-145' (Surface casing shoe: 95'):** Perforate squeeze holes at 145'. Attempt to establish rate. TIH and set 5.5" CR at 95'. Mix and pump 63 sx Class G cement, squeeze 39 sx outside casing and leave 24 sx inside casing.
  11. ND BOP and cut off wellhead below surface casing flange. Top off with cement if needed. Install P&A marker with cement per regulations. Photograph P&A marker in place. Cut off anchors and restore location per BLM stipulations.



## Florance Federal 2 - P&amp;A Planning

Formations	Tops (ft)
Surface	95
Nacimiento	1062
Ojo Alamo	3510
Kirtland	3580
Fruitland	3650
CR	3772
TOL	3782
Pictured Cliffs	3830

5.5" csg capacity (ft3/ft)	0.1336
5.5" csg / 7.875" hole capacity (ft3/ft)	0.1733
5.5" csg / 8.625" csg capacity (ft3/ft)	0.1856
Yield (ft3/sk)	1.15

Plugs	Reason	Inside/Outside	Top	Bottom	Total Length of Plug (ft)	Inside Csg Volume (cf/ft)	Outside Csg Volume (cf/ft)	# of sx inside (1.15 yield & 50' excess)	# of sx outside (1.15 yield & 100% excess)	Total # sx
1	CR/TOL/Perforations /Fruitland/Kirtland/Ojo top	Inside	3460	3772	312	0.1336	0.1733	42	0	42
2	Nacimiento	Inside/Outside	1012	1112	100	0.1336	0.1733	18	31	49
3	Surface	Inside/Outside	0	145	145	0.1336	0.1856	24	39	63

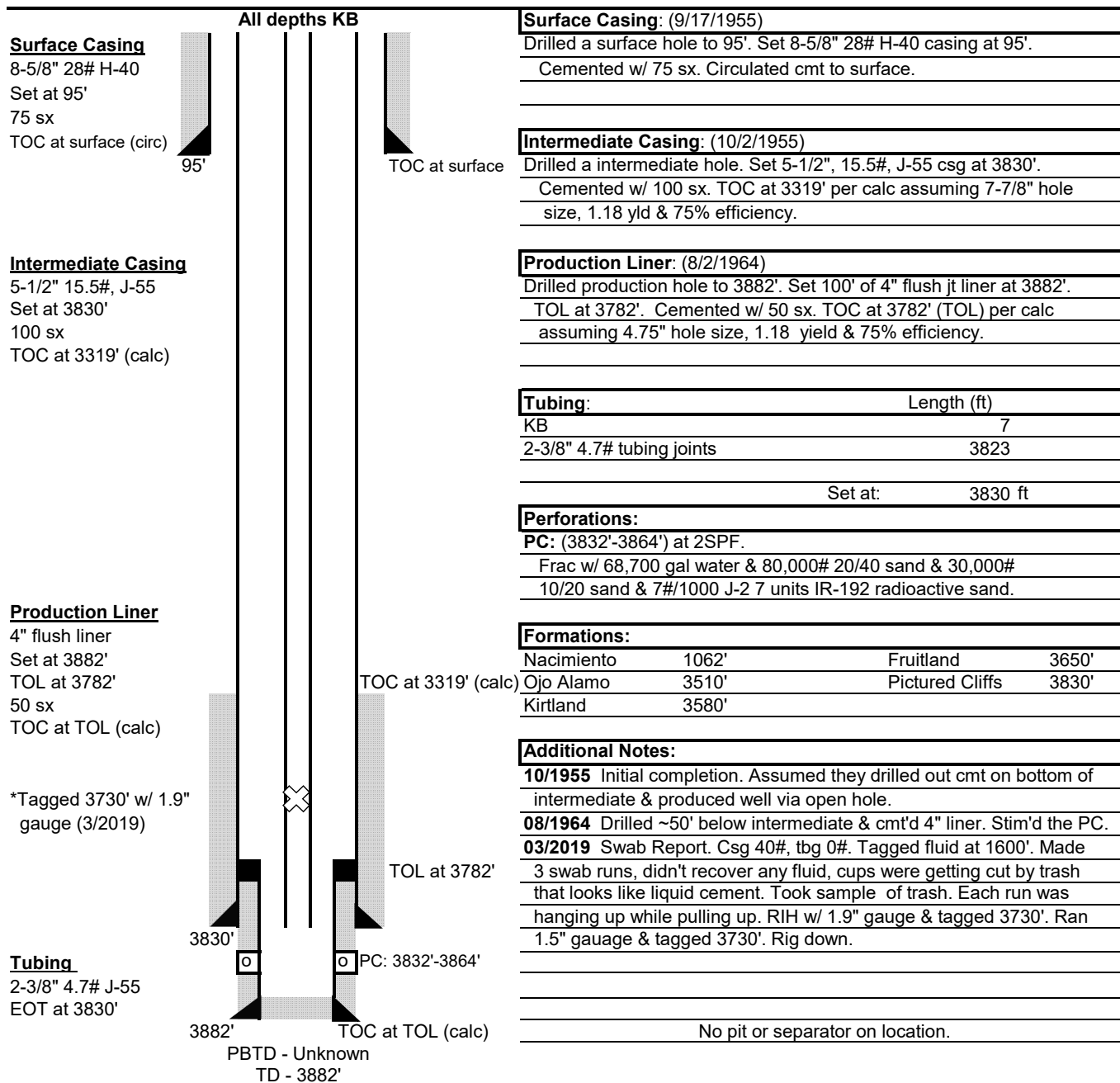
Total Cmt	154
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## Wellbore Schematic

Well Name: Florance Federal 2  
 Location: Sec 05, T25N, R03W 990' FNL & 990' FEL  
 County: Rio Arriba  
 API #: 30-039-06178  
 Co-ordinates: (Lat) 36.431458°, (Long) -107.162449° NAD83  
 Elevations: GROUND: 7189'  
 KB: 7196'  
 Depths (KB): PBTD: Unknown  
 TD: 3882'

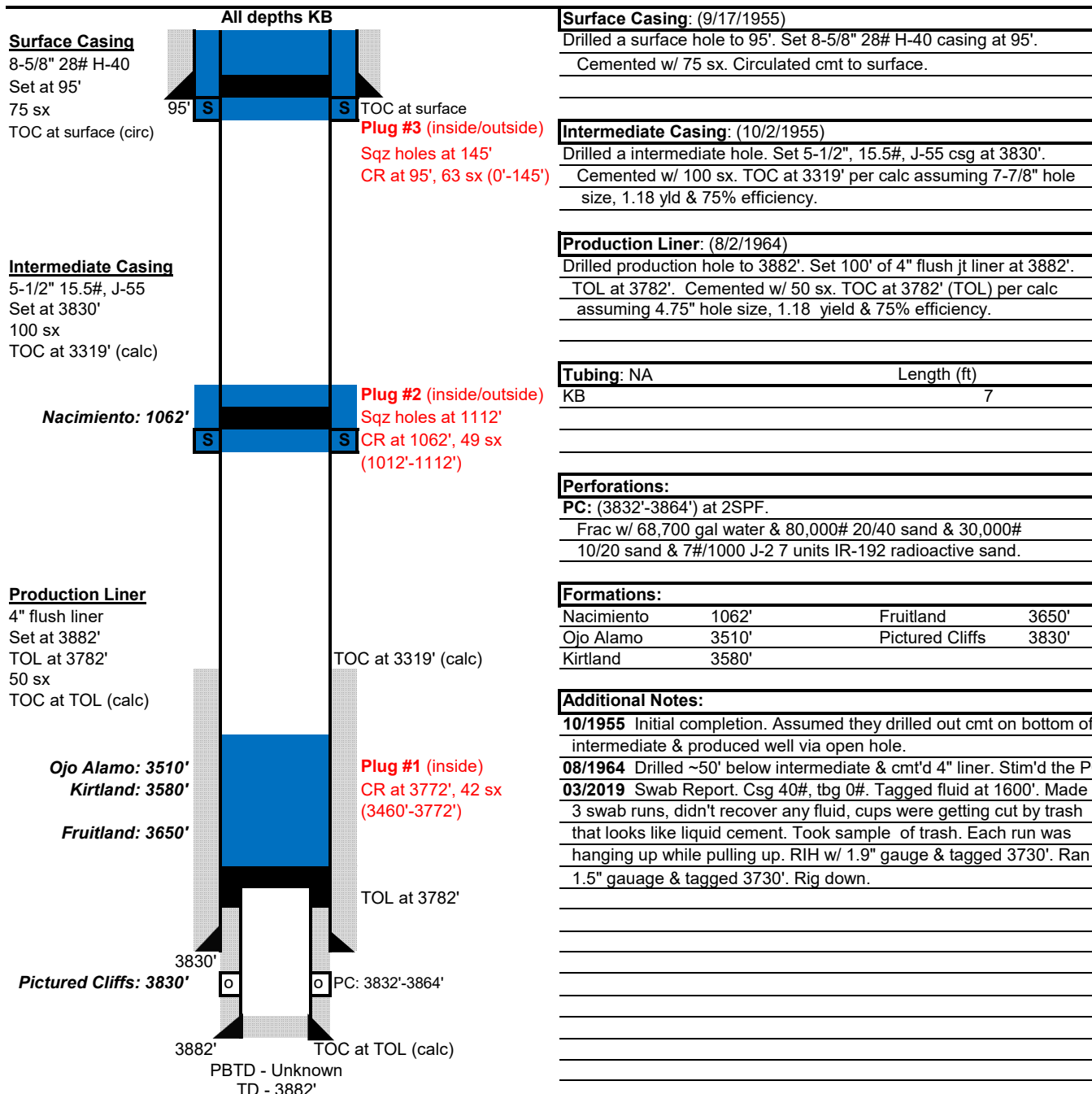
Date Prepared: 3/6/2019 Hespe  
 Reviewed By: 2/15/2023 Moss  
 Last Updated: 2/15/2023 Moss  
 Spud Date: 9/17/1955  
 Completion Date: 08/1964  
 Last Workover Date: 08/1965





## Proposed P&A Wellbore Schematic

Well Name:	Florance Federal 2	Date Prepared:	3/6/2019 Hespe
Location:	Sec 05, T25N, R03W 990' FNL & 990' FEL	Reviewed By:	2/15/2023 Moss
County:	Rio Arriba	Last Updated:	2/15/2023 Moss
API #:	30-039-06178	Spud Date:	9/17/1955
Co-ordinates:	(Lat) 36.431458°, (Long) -107.162449° NAD83	Completion Date:	08/1964
Elevations:	GROUND: 7189'	Last Workover Date:	08/1965
	KB: 7196'		
Depths (KB):	PBTD: Unknown		
	TD: 3882'		



**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 204647

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 204647
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
john.harrison	Adhere to BLM approved COAs and plugs. See BLM COAs and GEO report.	5/2/2023