

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. **JIC123**6. If Indian, Allottee or Tribe Name
JICARILLA APACHE**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) 278-87204. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC 5/T25N/R4W/NMP

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

8. Well Name and No. **JICARILLA 123 C/22**9. API Well No. **3003921297**10. Field and Pool or Exploratory Area
SOUTH BLANCO/SOUTH BLANCO11. 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 the attached P&A Procedure for Jicarilla 123 C 22

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) 324-4145Title **REGULATORY TECH**

Signature

Date

03/08/2023

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

KENNETH G RENNICK / Ph: (505) 564-7742 / ApprovedTitle **Petroleum Engineer**Date **03/24/2023**

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: SENE / 1550 FNL / 1170 FEL / TWSP: 25N / RANGE: 4W / SECTION: 5 / LAT: 36.431543 / LONG: -107.27007 (TVD: 0 feet, MD: 0 feet)

BHL: SENE / 1550 FNL / 1170 FEL / TWSP: 25N / SECTION: / LAT: 36.431543 / LONG: 107.27007 (TVD: 0 feet, MD: 0 feet)



Proposed Plug and Abandonment Procedure

Jicarilla 123 C 22

API: 30-039-21297

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.
1. Comply with all NMOCD, BLM, Jicarilla, 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. Set CIBP at ~3520'.
 4. Roll hole with fresh water and pressure test the casing to 560 psi for 15 minutes.
 - a. If pressure test fails, tag and record each plug top and top off with more cement if necessary.
 5. Conduct cement bond log from the CIBP at 3520' to surface.
 6. **Send cement bond log results to NMOCD and BLM to verify cement volumes and inside/outside plugs.**
 7. **Plug #1: 3042'-3520' (Perforations at 3575' / Pictured Cliffs top: 3570' / Fruitland top: 3294' / Kirtland top: 3262' / Ojo Alamo top: 3092'):** Mix and spot 15 sx Class G cement.
 8. **Plug #2: 2070'-2170' (Nacimiento top: 2120'):** Perforate squeeze holes at 2170'. Attempt to establish rate. Mix and pump 41 sx Class G cement, squeeze 36 sx outside casing and leave 5 sx inside casing.
 9. **Plug #3: 0'-193' (Surface casing shoe: 143'):** Perforate squeeze holes at 193'. Attempt to establish rate. Mix and pump 78 sx Class G cement, squeeze 71 sx outside casing and leave 7 sx inside casing. Top off with extra cement as needed.
 10. 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.



Jicarilla 123 C 22 P&A Planning

Formations	Tops (ft)
Surface	143
Nacimiento	2120
Ojo Alamo	3092
Kirtland	3262
Fruitland	3294
CIBP	3520
Pictured Cliffs	3570

2.875" csg capacity (ft3/ft)	0.0325
2.875" csg / 6.75" hole capacity (ft3/ft)	0.2034
2.875" csg / 8.625" csg capacity (ft3/ft)	0.3125
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	PC/CIBP/Fruitland /Kirtland/Ojo tops	Inside	3042	3520	478	0.0325	0.2034	15	0	15
2	Nacimiento Top	Inside/Outside	2070	2170	100	0.0325	0.2034	5	36	41
3	Surface	Inside/Outside	0	193	193	0.0325	0.3125	7	71	78

Total Cmt	134
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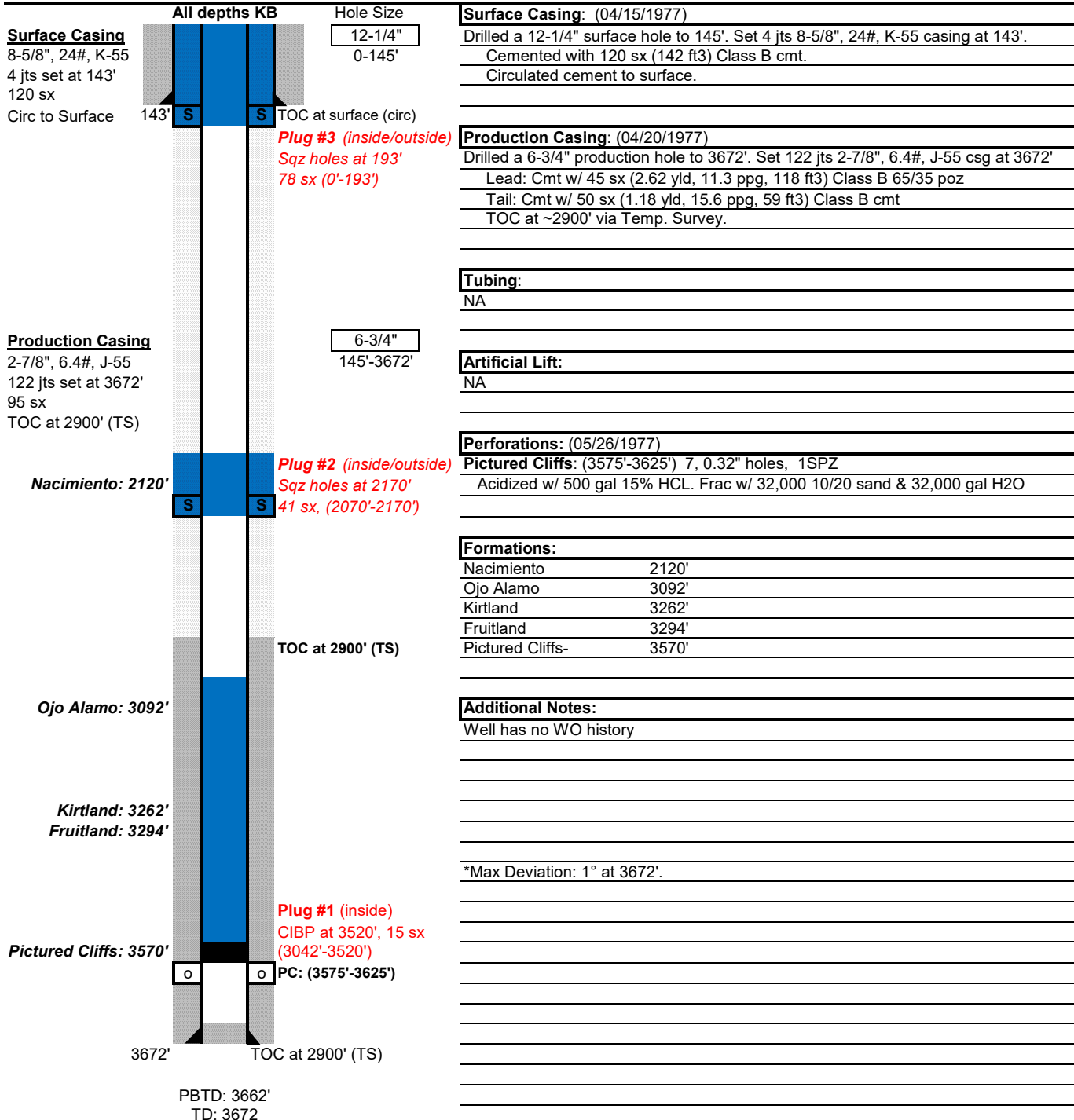


Proposed P&A Wellbore Schematic

Well Name: Jicarilla 123 C 22
 Location: Sec 5, T25N, R04W 1150' FNL & 1170' FEL
 County: Rio Arriba
 API #: 30-039-21297
 Co-ordinates: Lat 36.43194 Long -107.26954
 Elevations: GROUND: 7100'
 KB: 7113'
 Depths (KB): PBD: 3662'
 TD: 3672'

Date Prepared: 12/15/2020 Moss
 Reviewed By:
 Last Updated: 3/2/2023 Moss
 Spud Date: 4/15/1977
 Completion Date: 6/14/1977
 Last Workover Date:

VERTICAL WELLBORE



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 204661

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 204661
	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