

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM 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. **JIC120**

6. If Indian, Allottee or Tribe Name
JICARILLA APACHE

SUBMIT IN TRIPLICATE - Other instructions on page 2

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

1. Type of Well

Oil Well Gas Well Other

8. Well Name and No. **JICARILLA 120 C/13**

2. Name of Operator **LOGOS OPERATING LLC**

9. API Well No. **3003906220**

3a. Address **2010 AFTON PLACE, FARMINGTON, NM 87401** 3b. Phone No. (include area code)
(505) 278-8720

10. Field and Pool or Exploratory Area
SOUTH BLANCO/SOUTH BLANCO

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)
SEC 32/T26N/R4W/NMP

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 type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" 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 recomplete 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 recompletion 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&A Procedure and Reclamation Plan for Jicarilla 120 C 13

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
DACYE SHULL / Ph: (505) 324-4145

Title **REGULATORY TECH**

Signature

Dacye Shull

Date

08/04/2023

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

KENNETH G RENNICK / Ph: (505) 564-7742 / Approved

Title **Petroleum Engineer**

Date **08/04/2023**

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: NESE / 1690 FSL / 790 FEL / TWSP: 26N / RANGE: 4W / SECTION: 32 / LAT: 36.440443 / LONG: -107.268763 (TVD: 0 feet, MD: 0 feet)

BHL: NESE / 1690 FSL / 790 FEL / TWSP: 26N / SECTION: / LAT: 36.440443 / LONG: 107.268763 (TVD: 0 feet, MD: 0 feet)



Proposed Plug and Abandonment Procedure

Jicarilla 120 C 13

API: 30-039-06220

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 and laydown tubing. PU work string with CR and TIH.
 4. Set CR at ~3285' or within 50' 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 3285' to surface.
 7. **Send cement bond log results to NMOCD and BLM to verify cement volumes and inside/outside plugs.**
 8. **Plug #1: 2815'-3285' (Perforations: 3335' / Fruitland top: 3150' / Kirtland top: 3005' / Ojo Alamo top: 2865')**: Mix and spot 52 sx Class G cement.
 9. **Plug #2: 1809'-1909' (Nacimiento top: 1859')**: Perforate squeeze holes at 1909'. Attempt to establish rate. TIH and set 5" CR at 1859'. Mix and pump 35 sx Class G cement, squeeze 20 sx outside casing and leave 15 sx inside casing.
 10. **Plug #3: 0'-179' (Surface casing shoe: 129')**: Perforate squeeze holes at 179'. Attempt to establish rate. Mix and pump 54 sx Class G cement, squeeze 31 sx outside casing and leave 23 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.



Jicarilla 120 C 13 - P&A Planning

Formations	Tops (ft)
Surface Shoe	129
Nacimiento	1859
Ojo Alamo	2865
Kirtland	3005
Fruitland	3150
CR	3285
Pictured Cliffs	3330

5" csg capacity (ft3/ft)	0.1134
5" csg / 6.75" hole capacity (ft3/ft)	0.1122
5" csg / 7.625" csg capacity (ft3/ft)	0.1328

Yield (ft3/sk)	1.15
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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/Perforations/Fruitland/Kirtland/Ojo	Inside	2815	3285	470	0.1134	0.1122	52		52
2	Nacimiento	Inside/Outside	1809	1909	100	0.1134	0.1122	15	20	35
3	Surface	Inside/Outside	0	179	179	0.1134	0.1328	23	31	54

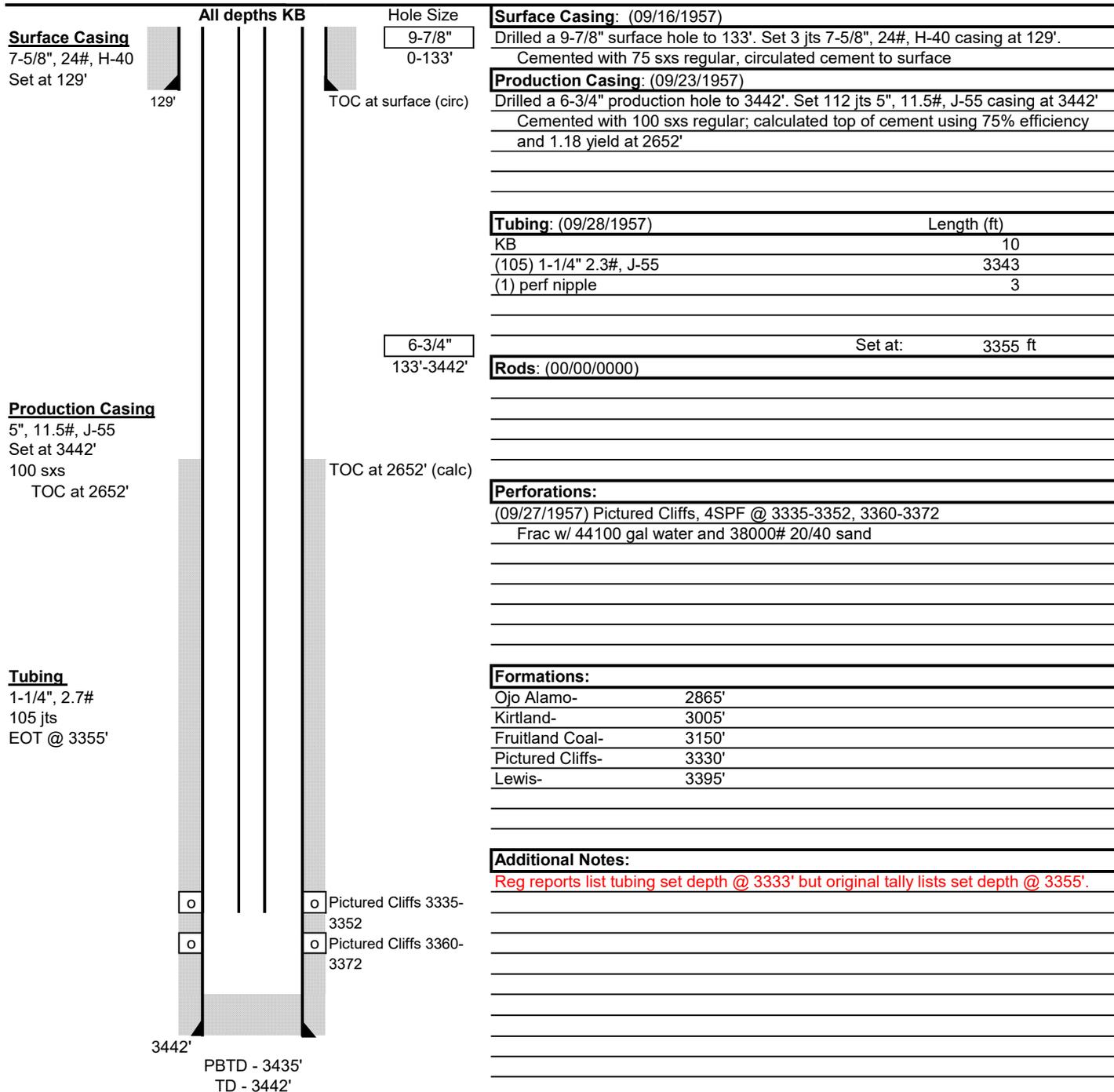
Total Cmt	141
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Wellbore Schematic

Well Name: Jicarilla 120C 13
 Location: Sec 32, T26N, R04W 1890' FSL & 790' FEL
 County: Rio Arriba
 API #: 30-039-06220
 Co-ordinates: Lat 36.44056, Long -107.26769
 Elevations: GROUND: 6799'
 KB: 6808.5'
 Depths (KB): PBTD: 3435'
 TD: 3442'

Date Prepared: 3/1/2017
 Last Updated: 3/20/2020
 Spud Date: 9/16/1957
 Completion Date: 10/1/1957
 Last Workover Date: _____

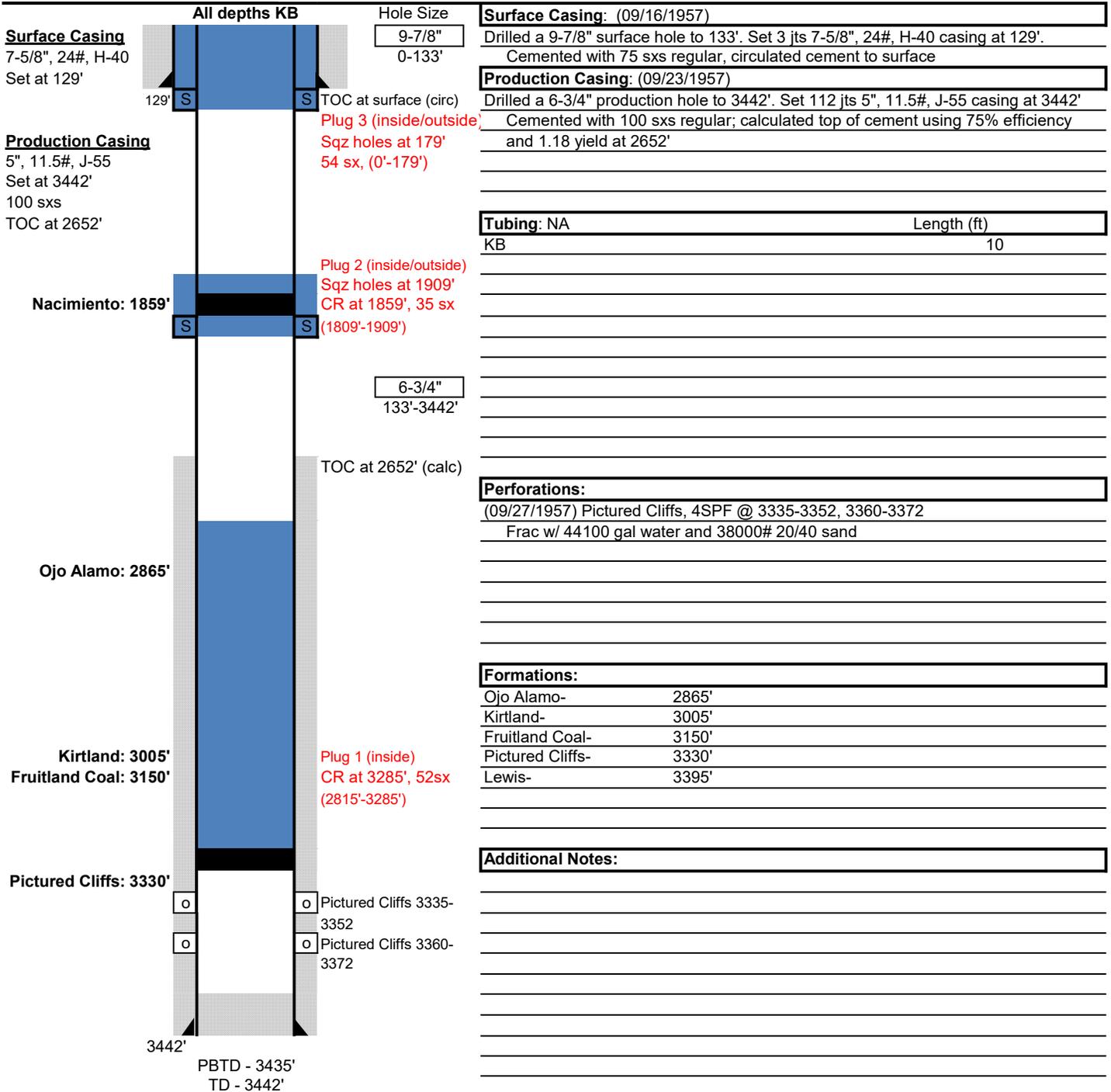




Proposed P&A Wellbore Schematic

Well Name: Jicarilla 120C 13
 Location: Sec 32, T26N, R04W 1890' FSL & 790' FEL
 County: Rio Arriba
 API #: 30-039-06220
 Co-ordinates: Lat 36.44056, Long -107.26769
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 Last Workover Date: _____



Final Reclamation Plan

Jicarilla 120 C #013

API: 30-039-06220

Jicarilla Contract 120

Unit: I Sec: 32, Twn: 26N, Rng: 04W

Final Reclamation

The entire well pad will be reclaimed to Bare Soil Reclamation Procedure (BSRP) reclamation standard upon abandonment/relinquishment. Final reclamation will be completed in accordance with Gold Book (USDI-USDA 2007) and The Nations Oil and Gas Administration . LOGOS will contact the NOGA, BIA & BLM-FFO prior to commencing earthwork.

LOGOS will perform the following reclamation activities:

- Fill material will be recontoured to the original topography of the site prior to development.
- The pad will be ripped to reduce compaction and to establish a suitable root zone in preparation for topsoil replacement.
- Natural drainage patterns will be restored as near as possible to pre-disturbance conditions on the pad. In areas where restoring the natural drainage will cause excessive disturbance and disrupt current or established natural rehabilitation processes, water bars or diversion ditches will be employed.
- Topsoil will be redistributed across the pad surface and disked to prepare the soil for seeding. Prior to seeding, all disturbed areas will be left with a rough surface to facilitate moisture and seed retention; vegetative brush will be placed at expected discharge areas to minimize sediment transport.
- After the pad is recontoured, the surface will be ripped, disked and reseeded with a disk typed seed drill or broadcast where conditions warrant. The seed drill will be equipped with a depth regulator to ensure even planting depths are achieved correlating to the specific plant species and soil types/s. Seed will be Pinyon Juniper Community Seed Mix and will be available to the BLM-FFO NOGA prior to seeding. Seeding will be accomplished as soon as reasonable possible following completion or earthwork activities. The NOGA, BIA & BLM- FFO will be notified prior to commencing seed application and all surfaces will be seeded in accordance.
- Temporary and/or permanent storm water and erosion control BMPs will be employed across appropriate location around the pad as dictated by location drainage patterns and expected areas of disturbance and slopes. BMP selection will be determined by local factors and will be a combination of sediment and erosion controls deemed effective and low maintenance. Diversion ditches, soil blankets, and/or other suitable BMPs may be used in various combinations, as appropriate, during and after construction activities.
- A weed management program to control the introduction and spread of weed populations will be integrated if necessary and continue until successful reclamation is achieved.
- All surface equipment and trash, if any will be removed from the location and disposed of at an approved disposal facility.

The long-term goal of final reclamation is to set the course for ecosystem restoration including the restoration of natural vegetation. LOGOS will avoid disturbance, to the greatest extent practicable in areas along the pad perimeter where healthy, mature, and weed-free vegetation has become established. LOGOS will focus reclamation efforts toward de-compaction, removing sharp/angular

Final Reclamation Plan

Jicarilla 120 C #013

API: 30-039-06220

Jicarilla Contract 120

Unit: I Sec: 32, Twn: 26N, Rng: 04W

Final Reclamation Final Reclamation

features to approximate natural contours, re-establishing natural drainage patterns, and re-vegetating the abandoned well pad.

Monitoring requirements will remain in effect in accordance with the NOGA, BIA and Gold Book (USDI-USDA 2007). LOGOS is responsible for monitoring reclamation progress and taking the necessary actions to ensure success.

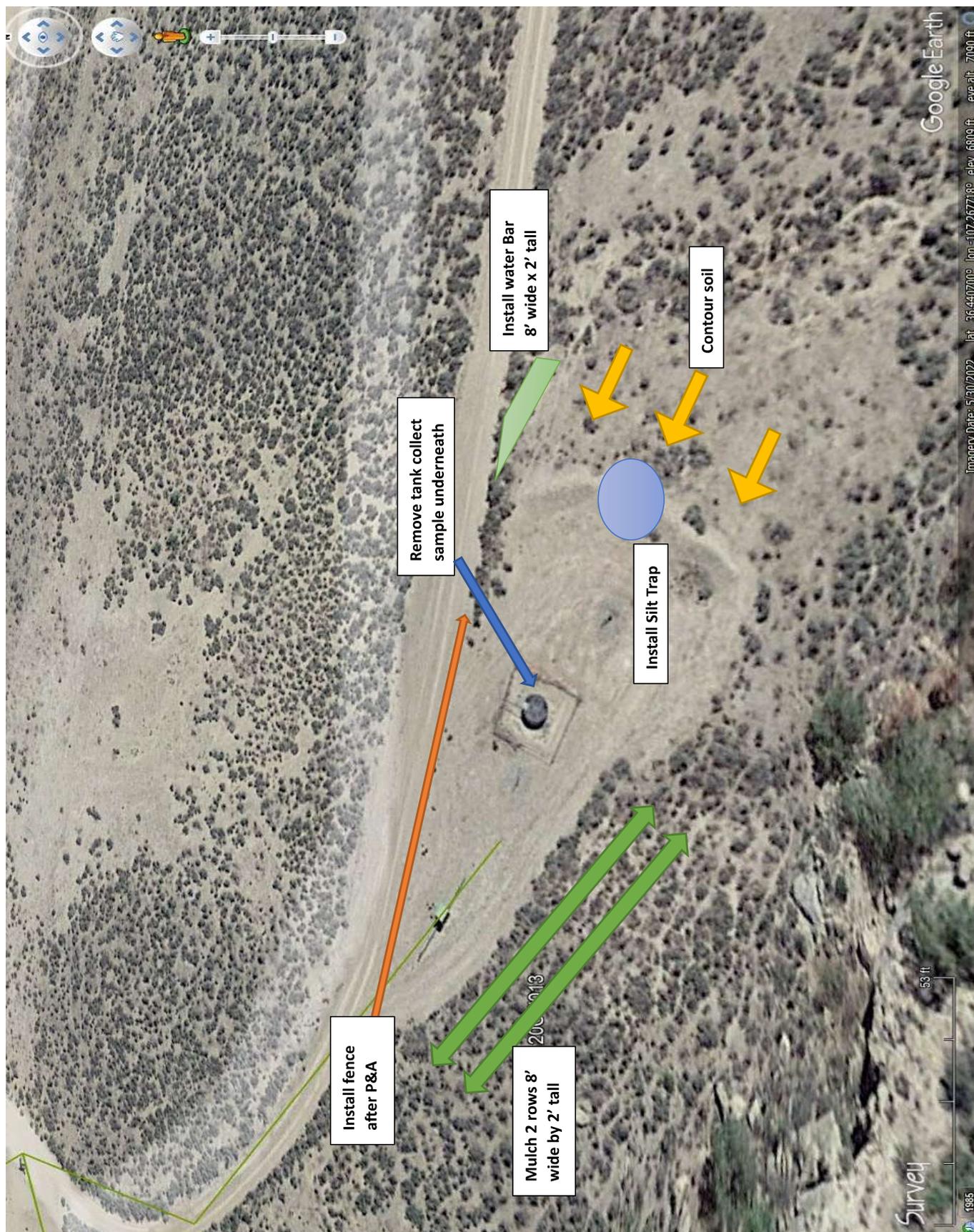
Site Specific Per Onsite April 13, 2023

LOGOS will perform the following reclamation activities:

Onsite attendances: Kurt Sandoval (BIA), Alfred Vigil, Jr. (JOGA), Donna Montoya (JOGA) Vanessa Fields (LOGOS) Jason Meechan (LOGOS) Stanley Dean (Harvest) Llyod Bell (Harvest)

- Request a PTPW from the Nations Oil & Gas Administration.
- Remove all Oil & Gas Equipment from site.
- Remove tank and have 3rd party collect final closure samples.
- LOGOS will strip back line from meter to wellhead.
- Harvest will remove meter run.
- Reseed affected areas with South Mix & Mulch.
- Install water bar along East side of location that measures 8' wide and 2' high (See Map).
- Install Silt trap along East side of location (See Map).
- Install 2 rows of mulched water bars along the West side of location that measures 8' wide and 2' high (See Map).
- Install fence along open access to location to prevent trespassing after P&A (See Map).
- Roads to remain open to access other Oil & Gas locations.
- Surface Marker to be buried 3' bgs and GPS coordinates identified on final Sundry.

30-039-06220 JICARILLA 120 C #013



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Well Name: JICARILLA 120 C

Well Location: T26N / R4W / SEC 32 / NESE / 36.440443 / -107.268763

County or Parish/State: RIO ARRIBA / NM

Well Number: 13

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name: JICARILLA APACHE

Lease Number: JIC120

Unit or CA Name:

Unit or CA Number:

US Well Number: 300390622000S1

Well Status: Producing Gas Well

Operator: LOGOS OPERATING LLC

Notice of Intent

Sundry ID: 2729807

Type of Submission: Notice of Intent

Type of Action: Reclamation

Date Sundry Submitted: 05/09/2023

Time Sundry Submitted: 11:06

Date proposed operation will begin: 05/12/2023

Procedure Description: Please find attached the referenced Jicarilla Final Reclamation Plan for P&A. LOGOS is requesting the BLM to accept for record.

NOI Attachments

Procedure Description

Reclamation_Plan_Jicarilla_120_C_13_20230509110554.pdf

Well Name: JICARILLA 120 C

Well Location: T26N / R4W / SEC 32 / NESE / 36.440443 / -107.268763

County or Parish/State: RIO ARRIBA / NM

Well Number: 13

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name: JICARILLA APACHE

Lease Number: JIC120

Unit or CA Name:

Unit or CA Number:

US Well Number: 300390622000S1

Well Status: Producing Gas Well

Operator: LOGOS OPERATING LLC

Operator

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

Operator Electronic Signature: VANESSA FIELDS

Signed on: MAY 09, 2023 11:06 AM

Name: LOGOS OPERATING LLC

Title: REGULATORY MANAGER

Street Address: 2010 AFTON PLACE

City: FARMINGTON State: NM

Phone: (505) 324-4145

Email address: VFIELDS@LOGOSRESOURCESLLC.COM

Field

Representative Name:

Street Address:

City: State: Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: DAVE J MANKIEWICZ

BLM POC Title: AFM-Minerals

BLM POC Phone: 5055647761

BLM POC Email Address: DMANKIEW@BLM.GOV

Disposition: Accepted

Disposition Date: 05/16/2023

Signature: Dave J Mankiewicz

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 249989

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 249989
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	accepted for record	8/24/2023