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Form 3160-5  
(June 2015)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SEP 07 2017

FORM APPROVED  
OMB No. 1004-0137  
Expires: January 31, 2018

**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. JIC 89

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 ☐ Other

2. Name of Operator LOGOS Operating, LLC

3a. Address 2010 Afton Place  
Farmington, NM 87401

3b. Phone No. (include area code)  
(505) 324-4145

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

8. Well Name and No. Jicarilla 89 4

9. API Well No. 30-039-07117

10. Field and Pool or Exploratory Area  
Blanco Mesaverde / Gavilan PC

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
990' FSL 990' FWL, SW/SW, M Sec 11, T27N, R03W,

11. Country or Parish, State  
Rio Arriba County, 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	Bradenhead Repair
	<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.)

LOGOS is submitting a plan of action for remedial repair due to Bradenhead Test Failure. Please see attached plan of action.

Reference: RBDMS MPK1715354796

OIL CONS. DIV DIST. 3  
OCT 19 2017

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)  
Tamra Sessions

Title Regulatory Specialist

Signature

Date

09/07/2017

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

PE

Date

9/18/17

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

FFO

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)

NMOC  
OPERATOR  
AV

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## BRADENHEAD REPAIR PROCEDURE

**Jicarilla 89 4**  
**990' FSL & 990' FWL**  
**Section 11, T27N, R03W**  
**Rio Arriba County, New Mexico**  
**Lat 36.5833893 Long -107.119751**

### **PROJECT OBJECTIVE:**

Pressure test casing. If leaks are present, isolate and repair to shut off bradenhead flow. Pressure test casing and return well to production.

### **WORKOVER PROCEDURE:**

1. Hold safety meeting. MIRU workover rig. Place fire and safety equipment in strategic locations. Comply with all LOGOS, BLM and NMOCD rules and regulations.
2. Lay flow lines. Check and record bradenhead, casing and tubing pressures. RU blow lines from casing valves to rig pit. Blow casing pressure down and kill well if necessary.
5. ND wellhead. NU BOP's.
6. Drop standing valve, load tubing (~23 bbl) and pressure test to 1000 psig. Retrieve standing valve with sand line.
7. TOOH tubing, visually inspecting and laying down joints as needed per visual inspection. Note condition of tubing (presence of paraffin, scale, corrosion or evidence of sand).  
Current tubing configuration:

NO.	DESCRIPTION
196	2-3/8" 4.7# J-55 EUE tubing joints
1	Seating nipple
1	Expendable check/muleshoe

8. PU 6-3/4" string mill and used bit, and cleanout to 3500' (50' above top PC perforation @ 3550'). TOOH and LD string mill and bit.
9. PU 7-5/8" 26.4# RBP and TIH to set @ RBP +/-3500'.
10. PU packer and set same above RBP liner top and load hole with fresh water. PT casing to 600 psig for 30 mins.
11. If casing does not hold PT, release packer and isolate hole(s) in casing. Attempt to establish injection rate and pressure into hole(s).



12. Contact engineer for cement squeeze instructions. **Notify BLM, Jicarilla and NMOCD of upcoming remedial cement work.**
13. Conduct cement squeeze as per Logos engineer instructions using either Class B or MicroMatrix cement. WOC.
14. Drill out and pressure test each leak zone to 500 psig. TOOH with bit.
15. Pressure test casing to 500 psig. Contact Logos engineer with results. If test passes, notify NMOCD and Jicarilla Tribe and pressure test the wellbore to 800 psig for 30 minutes on a 2hr chart with 1000# spring.
16. PU 6-3/4" used bit and string mill to cleanout out casing to RBP. Circulate well clean and swab well prior to releasing RBP. TOOH and LD RBP and retrieving head.
17. TIH to bail fill from lower perforations as needed.
18. Rig up hydro-tester and RIH testing tubing to 5500 psig (internal yield pressure of 2-3/8" 4.7# J-55 EUE tubing is 7700 psig, testing to ~70% of yield).
19. Run production tubing as follows:

NO	DESCRIPTION
1	Saw tooth collar (new)
1	2-3/8" x 1.81" ID seating nipple (re-run)
1	2-3/8" 4.7# J-55 EUE tubing joint
1	2-3/8" x 2' marker joint (new)
195	2-3/8" 4.7# J-55 EUE tubing join

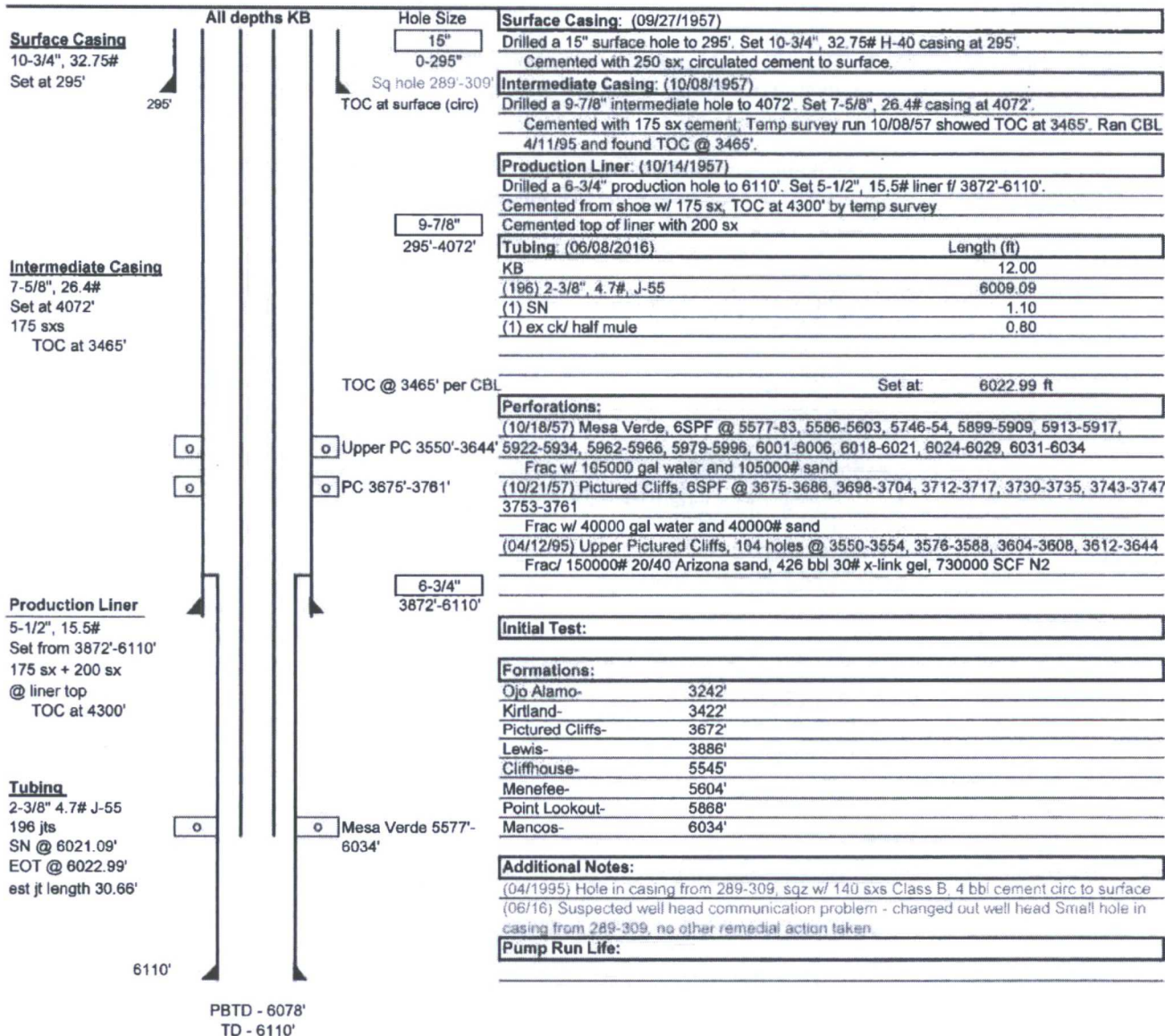
20. Drop bumper spring and chase to bottom with rig sand line as needed.
21. Swab well in to unload and RTP.
22. Notify lease operator or lead that well is ready to return to plunger lift.



### Wellbore Schematic

Well Name: Jicarilla 89 4  
Location: Sec 11, T27N, R03W 990' FSL & 990' FWL  
County: Rio Arriba  
API #: 30-039-07117  
Co-ordinates: Lat 36.5833893 Long -107.119751  
Elevations: GROUND: 6960'  
KB: 8972'  
PBTD: 6078'  
Depths (KB): TD: 6110'

Date Prepared: 1/12/2017  
Last Updated: 1/12/2017  
Spud Date: 9/26/1957  
Completion Date: 10/13/1957  
Last Workover Date: 6/6/2016



## **BLM CONDITION OF APPROVAL**

### ***CASING REPAIR, WORKOVER AND RECOMPLETION OPERATIONS:***

1. If casing repair operations are needed, obtain prior approval from this office before commencing repairs. If a CBL or other logs are run, provide this office with a copy.
2. After any casing repair operations, test cement squeeze to a minimum of 500# for 30 minutes with no more than 10 % pressure fall off in the 30 minute test period. Provide test chart with your subsequent report of operations
3. A properly functioning BOP and related equipment must be installed prior to commencing workover, casing repair, and/or recompletion operations.
4. Contact this office at (505) 564-7750 prior to conducting any cementing operations

### ***SPECIAL STIPULATIONS:***

1. Pits will be fenced during work-over operation.
2. All disturbance will be kept on existing pad.
3. All pits will be pulled and closed immediately upon completion of the recompletion and work-over activities.
4. Pits will be lined with an impervious material at least 12 mils thick.