

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

AMENDED

NOV 19 2013

FORM APPROVED  
OMB No. 1004-0137  
Expires: October 31, 2014

**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.  
Jicarilla Apache Lease #424  
6. If Indian, Allottee or Tribe Name  
Jicarilla Apache Nation

**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  
4001 North Butler Avenue, Building 7101  
Farmington, NM 87401

3b. Phone No. (include area code)  
505-330-9333

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1400' FNL, 355' FEL  
Section 5, T22N, R5W, UL H

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

8. Well Name and No.  
Logos 9

9. API Well No.  
30-043-21157

10. Field and Pool or Exploratory Area  
Wildcat Gallup

11. County or Parish, State  
Sandoval County, NM

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input 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 checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<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 <u>Completion</u>
	<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.)

10/27/13 MIRU AWS 656. NU BOP. 10/28/13 TIH w/ PDC bit, tag cmt @ 4390'. AT 09:30hr PT 5-1/2" csg to 1000psi for 30mins, test ok.  
DO cmt & DV tool @ 4418'. Tag cmt @ 6230', CO cmt to FC @ 6254'. Circ. LD PDC bit.  
10/29/13 ND BOP. RU Bluejet WL, run CBL f/6254' to surface. RD WL. PT 5-1/2" csg to 1000psi for 30min, test ok. RDRR @ 12:30hr.

11/02/13 ND tbg head, NU frac stack & PT, test ok.

RCVD NOV 22 '13  
OIL CONS. DIV.  
DIST. 3

ACCEPTED FOR RECORD

NOV 21 2013

FARMINGTON FIELD OFFICE  
BY T. Salazar

see attached page 2

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Tamra Sessions	Title Operations Technician
Signature <u>Tamra Sessions</u>	Date 11/19/2013

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by	Title	Date
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	

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)

AMOCED

Logos 9  
API# 30-043-21157  
Wildcat Gallup  
Logos Operating, LLC  
Page 2 of Completion Sundry

AMEND to adjust  
depths to open hole log

11/05/13 RU Bluejet WL to perf Greenhorn w/.385" diam, 3SPF @ 6034' – 6122' = 42 holes. Acidize w/48bbl 15% HCL Acid. Frac **1<sup>st</sup> Stage Greenhorn (6034'-6122')** w/1101bbls Slickwater, 9,587# 100Mesh. Well pressured out. Set **CFP @ 5964'**.

RIH w/BlueJet WL to **perf Sanostee** w/.385" diam, 3SPF @ 5800' – 5919' = 48 holes. Acidize w/20bbl 15% HCL Acid. Well pressured out. 11/06/13 RD BJ and Baker.

11/07/13 MIRU AWS481. Bleed csg pressure down.

11/08/13 ND frac stack, NU BOP. TIH w/bit, reamed tight spot & CO to 5964'. Circ, TOOH LD bit. TIH w/packer & set @ 4531'. Test DV tool & csg @ 3000psi for 30min, test good.✓

11/09/13 TOH & LD packer. TIH w/mill, work tight spot, CO, LD mill. RU Bluejet, set **CBP @ 5959'**, RD Bluejet. CO fill to 5959'. Circ.

11/10/13 RU Bluejet WL, tag CBP @ 5959', no fill. **Re-perf Sanostee** w/.385" diam, 3SPF @ 5818' – 5937' = 48 holes. ND BOP, NU & test frac stack. RDRR @18:30hr on 11/10/13.

11/12/13 Acidize w/48bbls 15% HCL Acid. Frac **2<sup>nd</sup> Stage Sanostee (5800'-5937')** w/4390bbls Slickwater, 5,000# 100Mesh, 67,967# 40/70 Ottawa Sand. Set **CFP @ 5522'**.

11/13/13 RIH w/BlueJet WL to perf Lower Gallup w/.385" diam, 3SPF @ 5374' – 5452' = 42 holes. Acidize w/48bbl 15% HCL Acid. Frac **3<sup>rd</sup> Stage Lower Gallup (5374'-5452')** w/5375bbls Slickwater 70Q N2, 10,000# 100Mesh, 110,850# 40/70 Ottawa Sand. Total N2: 2.3MMSCF. Set **CFP @ 5356'**.

RIH w/BlueJet WL to perf Middle Gallup w/.385" diam, 3SPF @ 5208' – 5338' = 42 holes. Acidize w/48bbl 15% HCL Acid. Frac **4<sup>th</sup> Stage Middle Gallup (5208'-5338')** w/4097bbls Slickwater 70Q N2, 10,000# 100Mesh, 128,720# 40/70 Ottawa Sand. Total N2: 2.0MMSCF. Set **CFP @ 5140'**.

RIH w/BlueJet WL to perf Upper Gallup w/.385" diam, 3SPF @ 4986' – 5106' = 45 holes. Total Gallup holes = 267. Acidize w/48bbl 15% HCL Acid. Frac **5<sup>th</sup> Stage Upper Gallup (4986'-5106')** w/4762bbls Slickwater, 10,773# 100Mesh, 84,160# 40/70 Ottawa Sand. RD & release Frac equipment 11/13/13.

11/13/13 Start Flowback. ✓