

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

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

NOV 21 2013

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an old or 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

CONFIDENTIAL

2. Name of Operator  
Logos Operating, LLC

8. Well Name and No.  
Logos #10

9. API Well No.  
30-043-21158

3a. Address  
4001 North Butler Avenue, Building 7101  
Farmington, NM 87401

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

10. Field and Pool or Exploratory Area  
Wildcat Gallup

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1930' FSL, 330' FWL  
Section 6, T22N, R5W, UL L

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 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.)

11/04/13 MIRU AWS 656. NU BOP. 11/05/13 TIH w/ PDC bit, tag cmt @ 4472'. At 10:30hr PT 5-1/2" csg to 1000psi for 15mins, test ok. DO cmt & DV tool @ 4486'. Tag cmt @ 6356', CO cmt to FC @ 6400'. PT 5-1/2" csg to 980psi for 30min, test ok. Circ. 11/06/13 LD bit. ND BOP. RU Bluejet WL, run CBL f/6400' to surface. RD WL. RDRR @ 12:00hr.

11/14/13 ND tbg head, NU frac stack & PT, test ok.

RCVD NOV 25 '13  
OIL CONS. DIV.  
DIST. 3

ACCEPTED FOR RECORD

NOV 25 2013

FARMINGTON FIELD OFFICE  
BY T. Solvers

see attached page 2

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

Signature Tamra Sessions Date 11/21/2013

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)

NMOCDA

Logos 10  
API# 30-043-21158  
Wildcat Gallup  
Logos Operating, LLC  
Page 2 of Completion Sundry

11/19/13 RU Bluejet WL to perf Greenhorn w/.385" diam, 3SPF @ 6082' – 6150' = 39 holes. Acidize w/57bbl 12% HCL Acid. Frac **1<sup>st</sup> Stage Greenhorn (6082'-6150')** w/4087bbls Slickwater, 11,596# 100Mesh, 40,237# 40/70 Ottawa Sand. Set CFP @ **6018'**.

RIH w/BlueJet WL to perf Sanostee w/.385" diam, 3SPF @ 5852' – 5966' = 48 holes. Acidize w/66bbl 12% HCL Acid. Frac **2<sup>nd</sup> Stage Sanostee (5852'-5966')** w/3789bbls Slickwater, 10,051# 100Mesh, 30,419# 40/70 Ottawa Sand. Set CFP @ **5552'**.

RIH w/BlueJet WL to perf Lower Gallup w/.385" diam, 3SPF @ 5352' – 5460' = 42 holes.  
11/20/13 Acidize w/53bbl 12% HCL Acid. Frac **3<sup>rd</sup> Stage Lower Gallup (5352'-5460')** w/2743bbls Slickwater 70Q N2, 7,185# 100Mesh, 112,501# 40/70 Ottawa Sand. Total N2: 2.5MMSCF. Set CFP @ **5334'**.

RIH w/BlueJet WL to perf Middle Gallup w/.385" diam, 3SPF @ 5188' – 5318' = 48 holes. Acidize w/71bbl 12% HCL Acid. Frac **4<sup>th</sup> Stage Middle Gallup (5188'-5318')** w/2907bbls Slickwater 70Q N2, 8,878# 100Mesh, 108,694# 40/70 Ottawa Sand. Total N2: 2.5MMSCF. Set CFP @ **5130'**.

RIH w/BlueJet WL to perf Upper Gallup w/.385" diam, 3SPF @ 4998' – 5102' = 45 holes. Total Gallup holes = 222. Acidize w/55bbl 12% HCL Acid. Frac **5<sup>th</sup> Stage Upper Gallup (4998'-5102')** w/4847bbls Slickwater, 6,670# 100Mesh, 103,069# 40/70 Ottawa Sand. RD & release Frac equipment 11/20/13.

11/20/13 Start Flowback.