

State of New Mexico  
Energy, Minerals and Natural Resources Department

Susana Martinez  
Governor

David Martin  
Cabinet Secretary-Designate

Brett F. Woods, Ph.D.  
Deputy Cabinet Secretary

Jami Bailey, Division Director  
Oil Conservation Division



New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-4 or 3160-5 form.

Operator Signature Date:

Application Type:

☐ P&A   ☐ Drilling/Casing Change   ☐ Recomplete/DHC  
☐ Location Change   ☒ Other: Completion

Well information:

API WELL #	Well Name	Well #	Operator Name	Type	Stat	County	Surf. Owner	UL	Sec	Twp	N/S	Rng	W/E
30-043-21156-00-00	LOGOS	008	LOGOS OPERATING, LLC	O	N	Sandoval	J	G	5	22	N	5	W

Conditions of Approval:

Notify NMOCD 24hrs prior to beginning operations.

Did not comply with OCD Rules 19.15.7.14.A(1)(a) and 19.15.5.11 enforcement action pending.

A handwritten signature in black ink, appearing to read "Brandi Bell", is written over a horizontal line.

NMOCD Approved by Signature

NOV 14 2013

Date

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

NOV 05 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.*

Farmington  
Sundry Office

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)  
1640' FNL, 2250' FEL  
Section 5, T22N, R5W, UL G

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

8. Well Name and No.  
Logos #8

9. API Well No.  
30-043-21156

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 Completion
	<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 recompleate 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 recompleation 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.)

10/23/13 MIRU AWS 656. 10/24/13 NU BOP. TIH w/ PDC bit, tag cmt @ 4373'. AT 11:30hr PT 5-1/2" csg to 1000psi for 30mins, test ok.  
DO cmt & DV tool @ 4418'. Tag cmt @ 6215', CO cmt to FC @ 6256'. Circ. LD PDC bit.  
10/25/13 RU Bluejet WL, run CBL f/6260' to surface. RD WL. PT 5-1/2" csg to 980psi for 30min, test ok. ND BOP. RDRR @ 13:30hr.  
10/26/13 ND tbq head, NU frac stack & PT, test ok.

OIL CONS. DIV DIST. 3

NOV 07 2013

ACCEPTED FOR RECORD

NOV 06 2013

FARMINGTON FIELD OFFICE  
BY William Tambekou

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 11/05/2013

**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

CONFIDENTIAL

Logos 8  
API# 30-043-21156  
Wildcat Gallup  
Logos Operating, LLC  
Page 2 of Completion Sundry

10/29/13 RU BlueJet WL to perf Greenhorn w/.385" diam, 3SPF @ 6062' – 6162' = 39 holes. Acidize w/48bbl 15% HCL Acid. Frac **1<sup>st</sup> Stage Greenhorn (6062'-6162')** w/4059bbls Slickwater, 10,000# 100Mesh, 41,380# 40/70 Ottawa Sand. Set CFP @ 6004'.

RIH w/BlueJet WL to perf Sanostee w/.385" diam, 3SPF @ 5838' – 5956' = 48 holes. Acidize w/48bbl 15% HCL Acid. Frac **2<sup>nd</sup> Stage Sanostee (5838'-5956')** w/4437bbls Slickwater, 5,000# 100Mesh, 81,800# 40/70 Ottawa Sand. Set CFP @ 5530'.

RIH w/BlueJet WL to perf Lower Gallup w/.385" diam, 3SPF @ 5398' – 5476' = 42 holes. Acidize w/48bbl 15% HCL Acid. Frac **3<sup>rd</sup> Stage Lower Gallup (5398'-5476')** w/2827bbls Slickwater 70Q N2, 10,000# 100Mesh, 92,320# 40/70 Ottawa Sand. Total N2: 2.58MMSCF. Set CFP @ 5378'.

RIH w/BlueJet WL to perf Middle Gallup w/.385" diam, 3SPF @ 5242' – 5362' = 42 holes. Acidize w/48bbl 15% HCL Acid. Frac **4<sup>th</sup> Stage Middle Gallup (5242'-5362')** w/2837bbls Slickwater 70Q N2, 10,000# 100Mesh, 104,000# 40/70 Ottawa Sand. Total N2: 2.57MMSCF. Set CFP @ 5160'.

RIH w/BlueJet WL to perf Upper Gallup w/.385" diam, 3SPF @ 5016' – 5110' = 39 holes. Total Gallup holes = 210. Acidize w/48bbl 15% HCL Acid. Frac **5<sup>th</sup> Stage Upper Gallup (5016'-5110')** w/4505bbls Slickwater, 10,100# 100Mesh, 79,900# 40/70 Ottawa Sand. RD & release Frac equipment 10/30/13.

10/31/13 Start Flowback.