

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

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

DEC 05 2013

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
Logos Operating, LLC

Farmington Field Office
Bureau of Land Management

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

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

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

8. Well Name and No.
Logos #12

9. API Well No.
30-043-21160

10. Field and Pool or Exploratory Area
Wildcat Gallup

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2470' FSL, 2065' FEL
Section 6, T22N, R5W, UL J

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 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.)

11/25/13 ND tbg head, NU frac stack & PT, test ok.

11/26/13 RU Bluejet WL to perf Greenhorn w/.385" diam, 3SPF @ 6064' - 6147' = 39 holes. Acidize w/48bbl 12% HCL Acid. Frac 1st Stage Greenhorn (6064'-6147') w/4036bbls Slickwater, 10,237# 100Mesh, 40,820# 40/70 Ottawa Sand. 11/27/13 Obstruction in wellbore at DV tool. Shut down and move off.

11/29/13 MIRU AWS481. ND frac stack, NU tbg head, NU BOP. TIH w/mill, circ w/KCL water, rotate thru DV tool @ 4423'. 11/30/13 POOH LD mill. RU Bluejet WL, set CFP @ 6032'. PT csg & plug to 1500psi for 15min, good. ND BOP, ND & remove tbg head, NU frac stack. Set RBP @ 285'. PT frac stack & seals, test ok. Release RBP & LD. RDRR @ 17:45hr on 11/30/13.

see attached page 2.

OIL CONS. DIV DIST. 3

DEC 09 2013

AGGREGATE RECORD

DEC 0 2013

CONFIDENTIAL
BY TL Salyers

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

Tamra Sessions

Title Operations Technician

Signature

Tamra Sessions

Date 12/05/2013

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

Logos 12
API# 30-043-21160
Wildcat Gallup
Logos Operating, LLC
Page 2 of Completion Sundry

12/04/13 RU Bluejet WL, Set **CFP @ 6014'**. RIH w/BlueJet WL to **perf Sanostee w/.385" diam, 3SPF @ 5840' – 5950' = 54 holes**. Acidize w/52bbl 12% HCL Acid. **Frac 2nd Stage Sanostee (5840'-5950')** w/7577bbls Slickwater, 4,749# 100Mesh, 64,381# 40/70 Ottawa Sand. Set **CFP @ 5554'**.

RIH w/BlueJet WL to perf Lower Gallup w/.385" diam, 3SPF @ 5329' – 5454' = 42 holes.
11/22/13 Acidize w/56bbl 12% HCL Acid. **Frac 3rd Stage Lower Gallup (5329'-5454')** w/2740bbls Slickwater 70Q N2, 10,075# 100Mesh, 101,761# 40/70 Ottawa Sand. Total N2: 2.1MMSCF. Set **CFP @ 5314'**.

RIH w/BlueJet WL to perf Middle Gallup w/.385" diam, 3SPF @ 5192' – 5296' = 48 holes. Acidize w/50bbl 12% HCL Acid. **Frac 4th Stage Middle Gallup (5192'-5296')** w/2746bbls Slickwater 70Q N2, 9,776# 100Mesh, 100,263# 40/70 Ottawa Sand. Total N2: 2.07MMSCF. Set **CFP @ 5120'**.

RIH w/BlueJet WL to perf Upper Gallup w/.385" diam, 3SPF @ 4974' – 5082' = 45 holes. Total Gallup holes = 228. Acidize w/46bbl 12% HCL Acid. **Frac 5th Stage Upper Gallup (4974'-5082')** w/4725bbls Slickwater, 10,283# 100Mesh, 108,180# 40/70 Ottawa Sand. RD & release Frac equipment 12/04/13. ✓

12/05/13 Start Flowback. ✓