

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MAR 05 2014

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

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

2. Name of Operator
Logos Operating, LLC

8. Well Name and No.
Logos #601H

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

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

9. API Well No.
30-043-21182

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
440' FNL, 560' FWL BHL: 432' FNL & 250' FWL
Section 5, T22N, R5W, UL D Section 6, T22N, R5W, UL D

10. Field and Pool or Exploratory Area
WC 22N5W6; 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 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.)

02/12/14 MIRU AWS656. NDmaster valve, NU BOP. 02/13/14 RU San Juan Casing, run 4-1/2" Haliburton tie-back seal assembly. TIH w/116jts 4-1/2" 11.6# P110 tie-back string. 02/14/14 Space out, land & lock mandrel. PT csg to 1000psi for 30min, test ok. TIH w/bit to 8650'. 02/15/14 Finish TIH to 10,606', circ, clean returns. POOH, LD tbg & bit. ND BOP, NU master valve. Release rig 02/15/14.

02/17/14 ND spacer tool, NU frac stack & PT, test ok.

RCVD MAR 6 '14
OIL CONS. DIV.
DIST. 3

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 03/04/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____ Title _____ Date **MAR 06 2014**
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 **FARMINGTON FIELD OFFICE**
BY: *Sr*

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)

NMOCDV

CONFIDENTIAL

Logos 601H
API# 30-043-21182
Wildcat Gallup
Logos Operating, LLC
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02/23/14 RU Baker & Basin WL to perf Gallup w/.385" diam, 6SPF @ 10414'-10597' = 24 holes.
02/24/14 Acidize w/48bbl 15% HCL Acid. **Frac 1st Stage** Gallup (10414'-10597') w/3677bbls Slickwater
70Q N2, 7246# 100Mesh, 197460# 40/70 Ottawa Sand, 3.697mmscf N2. **Set CFP @ 10386'**.

Perf Gallup w/.385" diam, 6SPF @ 10141'-10358' = 30 holes. Acidize w/48bbl 15% HCL Acid. **Frac 2nd Stage** Gallup (10141'-10358') w/3688bbls Slickwater 70Q N2, 7148# 100Mesh, 210600# 40/70 Ottawa Sand, 3.858mmscf N2. **Set CFP @10113'**.

Perf Gallup w/.385" diam, 6SPF @ 9874'-10085' = 30 holes. Acidize w/48bbl 15% HCL Acid. **Frac 3rd Stage** Gallup (9874'-10085') w/3612bbls Slickwater 70Q N2, 7086# 100Mesh, 210860# 40/70 Ottawa Sand, 3.538mmscf N2. **Set CFP @9841'**.

Perf Gallup w/.385" diam, 6SPF @ 9597'-9813' = 30 holes. 02/25/14 Acidize w/48bbl 15% HCL Acid. **Frac 4th Stage** Gallup (9597'-9813') w/3799bbls Slickwater 70Q N2, 7172# 100Mesh, 202130# 40/70 Ottawa Sand, 3.637mmscf N2. **Set CFP @9567'**.

Perf Gallup w/.385" diam, 6SPF @ 9325'-9541' = 30 holes. Acidize w/48bbl 15% HCL Acid. **Frac 5th Stage** Gallup (9325'-9541') w/3617bbls Slickwater 70Q N2, 7288# 100Mesh, 203474# 40/70 Ottawa Sand, 3.511mmscf N2. **Set CFP @9297'**.

Perf Gallup w/.385" diam, 6SPF @ 9054'-9269' = 30 holes. Acidize w/48bbl 15% HCL Acid. **Frac 6th Stage** Gallup (9054'-9269') w/3249bbls Slickwater 70Q N2, 6940# 100Mesh, 207080# 40/70 Ottawa Sand, 3.169mmscf N2. **Set CFP @9024'**.

Perf Gallup w/.385" diam, 6SPF @ 8780'-8996' = 30 holes. 02/26/14 Acidize w/48bbl 15% HCL Acid. **Frac 7th Stage** Gallup (8780'-8996') w/3512bbls Slickwater 70Q N2, 7797# 100Mesh, 202163# 40/70 Ottawa Sand, 3.231mmscf N2. **Set CFP @8756'**.

Perf Gallup w/.385" diam, 6SPF @ 8508'-8724' = 30 holes. Acidize w/48bbl 15% HCL Acid. **Frac 8th Stage** Gallup (8508'-8724') w/3552bbls Slickwater 70Q N2, 7030# 100Mesh, 199513# 40/70 Ottawa Sand, 3.438mmscf N2. **Set CFP @8477'**.

Perf Gallup w/.385" diam, 6SPF @ 8236'-8452' = 30 holes. Acidize w/48bbl 15% HCL Acid. **Frac 9th Stage** Gallup (8236'-8452') w/3315bbls Slickwater 70Q N2, 6869# 100Mesh, 207236# 40/70 Ottawa Sand, 3.07mmscf N2. **Set CFP @8208'**.

Perf Gallup w/.385" diam, 6SPF @ 7963'-8180' = 30 holes. 02/27/14 Acidize w/24bbl 15% HCL Acid. **Frac 10th Stage** Gallup (7963'-8180') w/3613bbls Slickwater 70Q N2, 7060# 100Mesh, 202311# 40/70 Ottawa Sand, 3.185mmscf N2. **Set CFP @7935'**.

Perf Gallup w/.385" diam, 6SPF @ 7691'-7907' = 30 holes. Acidize w/24bbl 15% HCL Acid. **Frac 11th Stage** Gallup (7691'-7907') w/3340bbls Slickwater 70Q N2, 7000# 100Mesh, 206048# 40/70 Ottawa Sand, 3.263mmscf N2. **Set CFP @7665'**.

Perf Gallup w/.385" diam, 6SPF @ 7419'-7635' = 30 holes. Acidize w/24bbl 15% HCL Acid. **Frac 12th Stage** Gallup (7419'-7635') w/3523bbls Slickwater 70Q N2, 6714# 100Mesh, 201860# 40/70 Ottawa Sand, 3.628mmscf N2. **Set CFP @7391'**.

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Wildcat Gallup
Logos Operating, LLC
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Perf Gallup w/.385" diam, 6SPF @ 7146'-7359' = 30 holes. 02/28/14 Acidize w/24bbl 15% HCL Acid. **Frac 13th Stage Gallup (7146'-7359')** w/3381bbbls Slickwater 70Q N2, 7348# 100Mesh, 208120# 40/70 Ottawa Sand, 3.2mmscf N2. **Set CFP @7118'.**

Perf Gallup w/.385" diam, 6SPF @ 7090'-6874' = 30 holes. Acidize w/24bbl 15% HCL Acid. **Frac 14th Stage Gallup (7090'-6874')** w/3184bbbls Slickwater 70Q N2, 7290# 100Mesh, 204140# 40/70 Ottawa Sand, 3.2mmscf N2. **Set CFP @6848'.**

Perf Gallup w/.385" diam, 6SPF @ 6818'-6602' = 30 holes. Acidize w/24bbl 15% HCL Acid. **Frac 15th Stage Gallup (6818'-6602')** w/3136bbbls Slickwater 70Q N2, 7302# 100Mesh, 202700# 40/70 Ottawa Sand, 3.0mmscf N2. **Set CFP @6574'.**

Perf Gallup w/.385" diam, 6SPF @ 6548'-6330' = 30 holes. 03/01/14 Acidize w/24bbl 15% HCL Acid. **Frac 16th Stage Gallup (6548'-6330')** w/3731bbbls Slickwater 70Q N2, 7634# 100Mesh, 208420# 40/70 Ottawa Sand, 3.5mmscf N2. **Set CFP @6302'.**

Perf Gallup w/.385" diam, 6SPF @ 6269'-6055' = 30 holes. Acidize w/24bbl 15% HCL Acid. **Frac 17th Stage Gallup (6269'-6055')** w/3606bbbls Slickwater 70Q N2, 7424# 100Mesh, 208160# 40/70 Ottawa Sand, 3.4mmscf N2. **Set CFP @6029'.**

Perf Gallup w/.385" diam, 6SPF @ 6001'-5781' = 30 holes. Acidize w/24bbl 15% HCL Acid. **Frac 18th Stage Gallup (6001'-5781')** w/4338bbbls Slickwater 70Q N2, 6998# 100Mesh, 194100# 40/70 Ottawa Sand, 3.7mmscf N2. **Set CBP @ 4800'.**

RD & release WL & Frac equipment 03/01/14.

03/05/14 Start Flowback.