

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

JUL 14 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)
Surface: 450' FNL, 510' FWL Bottom: 664' FNL, 252' FWL
Section 8, T22N, R5W, UL D Section 7, T22N, R5W, UL D

7. If Unit of CA/Agreement, Name and/or No. OIL CONS. DIV DIST. 3

8. Well Name and No. Logos 701H

9. API Well No. 30-043-21202 JUL 16 2014

10. Field and Pool or Exploratory Area WC 22N5W7; GALLUP (O)

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 <i>bl</i>	<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.)

06/19/14 MIRU AZ395. TIH to 6315', circ. Cont in hole to 10,480', circ. 06/20/14 Ream to bottom, circ. POOH. ND BOP. RDRR @ 21:00hr on 06/20/14
06/24/14 ND spacer tool, NU frac stack & PT, test ok.

see attached pages 2 & 3.

ACCEPTED FOR RECORD

JUL 15 2014

FARMINGTON FIELD OFFICE
BY: William Tambekou

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

Title Operations Technician

Signature Tamra Sessions Date 07/14/2014

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)

CONFIDENTIAL

NMOCDA

Logos 701H
API# 30-043-21202
Wildcat Gallup
Logos Operating, LLC
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06/25/14 RU Baker & Basin WL to perf Gallup w/.38" diam, 3SPF @ 10453'-10617' = 24 holes.
06/26/14 **Frac 1st Stage** Gallup (10453'-10617') w/1440bbbls 70Q Foam, 25765# 20/40 Brown, 276160#
12/20 Brown Sand, 2.7mmscf N2. **Set CFP @ 10425'.**

Perf Gallup w/.38" diam, 3SPF @ 10177'-10397' = 30 holes. **Frac 2nd Stage** Gallup (10177'-10397')
w/1489bbbls 70Q Foam, 26523# 20/40 Brown, 273460# 12/20 Brown Sand, 2.6mmscf N2. **Set CFP
@10149'.**

Perf Gallup w/.38" diam, 3SPF @ 9901'-10119' = 30 holes. **Frac 3rd Stage** Gallup (9901'-10119')
w/1737bbbls 70Q Foam, 35000# 20/40 Brown, 277180# 12/20 Brown Sand, 2.8mmscf N2. **Set CFP
@9873'.**

06/27/14 Perf Gallup w/.38" diam, 3SPF @ 9625'-9845' = 30 holes. **Frac 4th Stage** Gallup (9625'-9845')
w/1467bbbls 70Q Foam, 20280# 20/40 Brown, 274200# 12/20 Brown Sand, 2.6mmscf N2. **Set CFP
@9595'.**

Perf Gallup w/.38" diam, 3SPF @ 9350'-9569' = 30 holes. **Frac 5th Stage** Gallup (9350'-9569')
w/1472bbbls 70Q Foam, 24890# 20/40 Brown, 271640# 12/20 Brown Sand, 2.5mmscf N2. **Set CFP
@9321'.**

Perf Gallup w/.38" diam, 3SPF @ 9073'-9293' = 30 holes. **Frac 6th Stage** Gallup (9073'-9293')
w/1475bbbls 70Q Foam, none# 20/40 Brown, 274840# 12/20 Brown Sand, 2.4mmscf N2. **Set CFP
@9045'.**

06/28/14 Perf Gallup w/.38" diam, 3SPF @ 8797'-9017' = 30 holes. **Frac 7th Stage** Gallup (8797'-9017')
w/1400bbbls 70Q Foam, 24900# 20/40 Brown, 270020# 12/20 Brown Sand, 2.4mmscf N2. **Set CFP
@8769'.**

Perf Gallup w/.38" diam, 3SPF @ 8521'-8738' = 30 holes. **Frac 8th Stage** Gallup (8521'-8738')
w/1404bbbls 70Q Foam, 25470# 20/40 Brown, 277400# 12/20 Brown Sand, 2.5mmscf N2. **Set CFP
@8493'.**

06/29/14 Perf Gallup w/.38" diam, 3SPF @ 8245'-8465' = 30 holes. **Frac 9th Stage** Gallup (8245'-8465')
w/1343bbbls 70Q Foam, 24860# 20/40 Brown, 275600# 12/20 Brown Sand, 2.3mmscf N2. **Set CFP
@8215'.**

Perf Gallup w/.38" diam, 3SPF @ 7969'-8189' = 30 holes. **Frac 10th Stage** Gallup (7969'-8189')
w/1402bbbls 70Q Foam, 25000# 20/40 Brown, 270360# 12/20 Brown Sand, 2.4mmscf N2. **Set CFP
@7941'.**

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Perf Gallup w/.38" diam, 3SPF @ 7693'-7913' = 30 holes. **Frac 11th Stage Gallup (7693'-7913')**
w/1375bbbls 70Q Foam, 24740# 20/40 Brown, 272320# 12/20 Brown Sand, 2.3mmscf N2. **Set CFP
@7665'.**

06/30/14 Perf Gallup w/.38" diam, 3SPF @ 7417'-7637' = 30 holes. **Frac 12th Stage Gallup (7417'-7637')**
w/1430bbbls 70Q Foam, 24800# 20/40 Brown, 271500# 12/20 Brown Sand, 2.3mmscf N2. **Set CFP
@7389'.**

Perf Gallup w/.38" diam, 3SPF @ 7141'-7361' = 30 holes. **Frac 13th Stage Gallup (7141'-7361')**
w/1346bbbls 70Q Foam, 26440# 20/40 Brown, 272700# 12/20 Brown Sand, 2.2mmscf N2. **Set CFP
@7113'.**

~~Perf Gallup w/ .38" diam, 3SPF @ 6865'-7085' = 30 holes. **Frac 14th Stage Gallup (6865'-7085')**
w/1290bbbls 70Q Foam, 26160# 20/40 Brown, 270860# 12/20 Brown Sand, 2.4mmscf N2. **Set CFP
@6837'.**~~

Perf Gallup w/.38" diam, 3SPF @ 6589'-6809' = 30 holes. 07/01/14 **Frac 15th Stage Gallup (6589'-6809')**
w/1334bbbls 70Q Foam, 23740# 20/40 Brown, 273800# 12/20 Brown Sand, 2.5mmscf N2. **Set CFP
@6561'.**

07/01/14 Perf Gallup w/.38" diam, 3SPF @ 6314'-6533' = 30 holes. **Frac 16th Stage Gallup (6314'-6533')**
w/1316bbbls 70Q Foam, 26000# 20/40 Brown, 273240# 12/20 Brown Sand, 2.2mmscf N2. **Set CFP
@6285'.**

Perf Gallup w/.38" diam, 3SPF @ 6037'-6257' = 30 holes. **Frac 17th Stage Gallup (6037'-6257')**
w/1551bbbls 70Q Foam, 24084# 20/40 Brown, 275520# 12/20 Brown Sand, 2.3mmscf N2. **Set CFP
@6009'.**

Perf Gallup w/.38" diam, 3SPF @ 5762'-5981' = 30 holes. **Frac 18th Stage Gallup (5762'-5981')**
w/1352bbbls 70Q Foam, 24084# 20/40 Brown, 271320# 12/20 Brown Sand, 2.5mmscf N2. **Set CBP
@4660' and PT to 3000psi for 15min, good test.**

RD & release Frac equipment 07/01/14.