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Form 3160-5
(March 2012)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FEB 15 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 and maintain an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No. Jicarilla Apache Lease #424
6. 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. RCVD FEB 18 '14

2. Name of Operator Logos Operating, LLC

8. Well Name and No. OIL CONS. DIV. 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 DIST. 3

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Surface: 440' FNL, 560' FWL Section 5, T22N, R5W, UL D
Bottom: 440' FNL, 330' FWL Section 6, T22N, R5W, UL D

10. Field and Pool or Exploratory Area WC 22N5W6; 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 Casing & Liner
	<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.)

01/14/14 12:00hr MU directional tools, TIH tag cmt @ 450', DO cmt f/450' t/FC @ 459', CO to 510'. Start drilling 8-3/4" intermediate hole. 01/17/14 Drill to 4803', pull directional tools. 01/18/14 RIH w/curve BHA, wash/ream to 4803' and drill to KOP @ 4823', cont drilling curve to 5850' int TMD on 01/19/14. TOH & LD directional tools. 01/20/14 TIH w/reamer & CO to 5850', circ. Breakdown reamer/bit. 01/21/14 RIH w/137jts 7" 23#, J-55, LT&C csg & land @ 5770' w/FC @ 5724' & stage tool @ 4416'. RU BJ to cmt.

Cement 1st Stage: Preflush w/5bbls FW, 10bbls CW & 5bbls FW. Lead w/100sx(35bbls, 197cf) Halcem w/5#/sx Kol-Seal, .125#/sx Poly-E-Flake. Tail w/140sx(33bbls, 183cf) Varicem w/w/5#/sx Kol-Seal, .125#/sx Poly-E-Flake, .015% CFR-3, .3% Halad. Drop plug & displace w/51bbls FW & 173bbls mud. Bump plug @ 04:15hr on 01/21/14, open tool & circ. 25bbls cmt to surface.

Cement 2nd Stage: Preflush w/10bbls FW, 10bbls CW & 10bbls FW. Lead w/490sx(167bbls, 939cf) Halcem w./w/5#/sx Kol-Seal, .1#/sx Poly-E-Flake. Tail w/50sx(10bbls, 58cf) Type G w/.2% Halad-9. Drop plug & displace w/174bbls FW. Land plug, close stage tool @ 12:01hr on 01/21/14, & circ 35bbls cmt to surface. RD BJ. ND BOP. Set slips & cut off 7" csg. NU BOPE.

01/22/14 PU 6-1/8" directional tools & BHA, TAG DV tool @ 4416', circ. 17:30hr PT csg to 1500psi for 30 min, good test, DO DV tool. PT csg to 1500psi for 30min, good test. DO & CO cmt to 5850. Cont directional drill. 01/25/14 Recieved verbal approval from Troy Salyers (BLM) & Branden Powell (OCD) to drill an additional 80' in MD, this would put our TD at approximately 250' FWL of Sec 6, and allow us to perf our prod holes closer to the 330' setback of the NSL. TD @ 10,747' TMD, 5403' TVD at 06:00hr on 01/26/14.

**Cont on page 2

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Tamra Sessions Title Operations Technician Date 02/10/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

ACCEPTED FOR RECORD

Approved by [Signature] Title [Blank] Date FEB 18 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: William Tambekou

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 601H
API# 30-043-21182
Wildcat Gallup
Logos Operating, LLC
Page 2 of Casing & Liner Sundry

01/26/14 Circ to TD. LD Directional tools. RU csg crew. RIH w/133jts 4-1/2" 11.6#, P-110, LT&C liner & land @ 10,747' w/FC @ 10,702' & landing collar @ 10,658'. TOL @ 4945'. Circ.

RU cementers. Preflush w/10bbls 2%KCL, 40bbls Tuned Spacer & 10bbls FW. Lead w/40sx (10bbls, 56cf)Elastiseal w/.2% Versaset, .15% Halad-766, .2% Halad-344.

Lead #2 w/270sx (72bbls, 405cf) Foamed 270 w/.2% Versaset, .25% Halad-766, 2.5% Foamer 760, .2% Halar-344.

Tail w/100sx (23bbls, 129cf) Elastiseal w/.2% Versaset, .15% Halad-766, .05% SA-1015. Drop dart & displace w/135bbls 2% KCL, bump plug @ 00:33hr on 01/28/14 & circ 10bbls foamed cmt to surface. RD cementers. LD DP & fill hole completely w/2% KCL water. ND BOP, NU B-1 adapter valve.

RDRR @ 06:00hr on 01/29/14