

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

AUG 24 2012

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.**

Lease Serial No  
Jicarilla Tribal #424

Indian, Allottee or Tribe Name  
Jicarilla Apache

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
Logos Capital Management, LLC

3a. Address  
4001 North Butler, Building 7101  
Farmington, New Mexico 87401

3b. Phone No. (include area code)  
505-436-2627

4. Location of Well (Footage, Sec., T, R, M., or Survey Description)  
1610' FNL & 1710' FWL  
Section 5, Township 22N, Range 5W

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

8. Well Name and No  
Logos #1

9. API Well No.  
30-043-21119

10. Field and Pool or Exploratory Area  
Basin Dakota

11. County or Parish, State  
Sandoval, New Mexico

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	AMENDED - spud, surf & prod csg, cement & pressure information
	<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.)

5/29/2012 Spud well @ 18 00 hrs. Drilled 12-1/4" surface hole to 525'. Ran 12 jts of 8-5/8", 24#, J-55, ST&C csg. Set @ 517.69'.  
5/30/2012 Precede cement w/ 20 bbls of gel water. Mix & pump 390 sx (456 cu.ft.) of Class "G" w/ 1/8#/sx of Polyflake & 2% CaCl2. Drop plug & displace cement w/ 30 bbls of water. Good circulation throughout job. Bump plug to 500 psi - held OK. PD @ 08:00 hrs 5/30/2012. Release pressure & check floats - held OK. Circulated 30 bbls of good cement to surface. PT 8-5/8" casing to 600 psi for 30 min - held OK. Rig down testers. Casing & cement jobs witnessed by Bryce Hammond w/ Jicarilla/BLM.  
6/5/2012 Drilled 7-7/8" production hole to 6630' TD @ 5:00 hrs.  
6/8/2012 TIH w/ 160 jts of 5-1/2", 17# P110, LT&C csg. Circulate last jt to bottom. Set @ 6630' KB, float collar @ 6609' KB, marker jt @ 6171' KB, 1st DV tool @ 4497' KB & 2nd DV tool @ 2896' KB. See Attachment for 3 stage cement details  
6/26/2012 Rig crew arrived @ 7:00 hrs. RIH w/ 4-3/4" WO bit. Tag up @ 2861' (all depths KB). Drill 40' cement, from 2861' to DV tool (#1) @ 2901'. Drill DV tool (#1) from 2901-03'. Tag up @ 4464'. Drill 38' cement from 4464' to DV tool (#2) @ 4502'. Drill DV tool (#2) from 4502-04'. Drill, wash & ream 66' cement from 4504' to 4570'.  
6/27/2012 RIH w/ tbg (tag up @ 6579' - 30' above float collar @ 6609') TOOH w/ tbg/bit. MU 5-1/2" csg scraper & bit on tbg & TIH. Tag up @ 6534' (75' above float collar @ 6609' - 45'). Wash down 15' (6534' - 6549'). Wash & ream to PBDT @ 6610'. Circulate well @ PBDT. PT 5-1/2" casing to 1000 psi for 30 min - held OK. Circulate well clean @ PBDT (6610') w/ 2% KCL H2O.  
6/28/2012 TOOH w/ tbg laying down. Run GR/CCL/CBL from PBDT (6603' WLM) to surface. Found DV tools @ 2893'-2896' & 4494'-4497'. Marker joint 6168'-6186' (all depths KB). Rig released @ 13:30 hrs.

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

Kristy Graham

Title Director of Administration and Engineering Support

Signature

*Kristy Graham*

Date 08/24/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

ACCEPTED FOR RECORD

Approved by

Title

Date

AUG 29 2012

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 *[Signature]*

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)

NMOCD

## **Logos #1 – production casing/cement sundry (attachment)**

**1 stage:** Precede cement w/ 5 bbl water, 20 bbls of gel/chem-wash & 5 bbl water space. Mix & pump 220 sx (321.5 cf) of 50/50 Poz w/ 5#/sx of Kol-Seal, 1/8#/sx of Poly Flake & 0.3% Halad R-9. Tail in w/ 180 sx (236 cf) of 50/50 Poz w/ 5#/sx of Kol-Seal, 1/8#/sx of Poly Flake, 0.15% CFR-3 & 0.3% Halad R-9. Good circulation throughout job. Pump slurry at 5 bpm. Drop plug & displace cement w/ 60 bbls of water & 93.5 bbls of mud (total displacement: 153.5 bbls). PD at 20:30 hrs 6/7/2012. Bump plug to 1250 psi (held pressure ok) – release pressure to check floats, holding OK. Increase pressure & open 1<sup>st</sup> DV tool at 3311 psi. Circulate off top of 1<sup>st</sup> DV tool. Continue pumping and **circulate out 10 bbls of good cement to surface**. Switch over to rig pump and circulate for 4 hrs – good returns entire time.

**2<sup>nd</sup> stage:** Precede cement w/ 5 bbl water, 20 bbls of gel/chem was & 5 bbl water space. Mix & pump 265 sx (390 cf) of 50/50 Poz w/ 5#/sx of Kol-Seal, 1/8#/sx of Poly Flake & 0.3% Halad R-9. Tail in w/ 50 sx (57.5 cf) of Class “G” neat cement. Pump slurry at 5 bpm. Drop plug & displace cement w/ 50 bbls of water & 54.5 bbls of mud (total displacement: 104.53 bbls ). PD at 02:00 hrs 6/8/2012. Bump plug to 2200 psi (close 1<sup>st</sup> DV tool) – holding pressure OK. Release pressure to check float, held OK. Open cement head & drop dart. Hesitate for 15 mins. Pressure up on 2<sup>nd</sup> DV tool, opened at 466 psi. Circulate off top of 2<sup>nd</sup> DV tool. Continue pumping and **circulate out 30 bbls of good cement to surface**. Switch over to rig pump & circulate for 4 hrs – good returns entire time.

**3<sup>rd</sup> stage.** Precede cement w/ 5 bbl water, 20 bbls of gel/chem was & 5 bbl water space. Mix & pump 450 sx (661.5 cf) of 50/50 Poz w/ 5#/sx of Kol-Seal & 1/8#/sx of Poly Flake. Tail in w/ 50 sx (57.5 cf) of Class “G” neat cement. Pump slurry at 5 bpm. Drop plug & displace cement w/ 67.4 bbls of water. PD at 07:30 hrs 6/8/2012. Bump plug to 2500 psi (close 2<sup>nd</sup> DV tool) – holding pressure OK. Release pressure to check float, held OK. **Circulated 37 bbls of good cement to surface.**