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Form 3160-5
(March 2012)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MAR 29 2013

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.
NM 109387
6. If Indian, Allottee or Tribe Name

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)
505-436-2627

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

8. Well Name and No.
Logos #3

9. API Well No.
30-043-21135

10. Field and Pool or Exploratory Area
Please see below.

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
741' FSL, 1263' FEL
Section 5, T22N, R6W, UL P

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.)

Logos Operating, LLC requests approval for the attached completion report on the Logos #3.

WC22N6W5;Dakota(O) 97997 - completion detail attached
WC22N5W5;Gallup(O) 98013 - completion detail attached
WC22N6W5;Mesaverde(O) 98014 - completion and plugging detail attached (dry hole completion)

RCVD APR 2 '13
OIL CONS. DIV.
DIST. 3

ACCEPTED FOR RECORD

APR 02 2013

FARMINGTON FIELD OFFICE
BY William Tambakon

CONFIDENTIAL

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

Kristy Graham

Title Production Engineer

Signature

Date 03/28/2013

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 #3 – Completion Report:

2/22/13 – Rig up wireline. Perforate interval 6140-6272 with 2 SPF (total of 32 holes). Frac with 2,000 gal of 10% HCl; 10,640# of 100 mesh sand; 40,120# of 40/70 sand; 3914 BBLs of slickwater. RU wireline and set composite bridge plug at 6100'. Pressure tested plug to 3000 PSI, held good for 5 min. Perforate interval from 5838'-6050' with 1 SPF (28 total holes). Frac with 2000 gal of 10% HCl; 10,000# of 100 mesh sand; 71,065# of 40/70 sand; 6,072 BBLs of slickwater.

2/23/13 – RU wireline and set Frac Plug at 5752'. Perforate interval 5440-5504 with 4 SPF (36 holes). Frac with 2000 gal of 10% HCl; 10,840# of 100 mesh sand; 93,805# of 40/70 sand; 70Q Foam (2,245 BBLs of slickwater and 2.6MMSCF N₂). RU wireline and set frac plug at 5414', tested plug to 3100 PSI for 5 min, held good. Perforate interval 5268-5392' with 3 SPF (36 holes). Frac with 2000 gal of 10% HCl; 10,000# of 100 mesh; 94,000# of 40/70 sand; 70Q Foam (2401 BBLs of Slickwater and 2.3MMSCF N₂). RU wireline and set frac plug @ 5210', tested plug to 3000 PSI for 5 minutes, held good. Perforate interval from 5024-5150 with 2 SPF (34 holes). Frac with 2000 gal of 10% HCl; 10,000# 100 mesh sand; 90,500# of 40/70 sand; 6,633 bbls of slickwater.

3/4/13 – RU wireline and set composite bridge plug @ 4970'. Perforate 3727', 3908'-3918', 3953' with 3 SPF (36 holes). Pump 750 gal of 15% HCl and displace with 118 BBLs of water. Shut well in.

3/7/13-3/11/13 – TIH with tbg and packer and set packer at 3691'. Swab test interval from 3727-3953' and recover nothing but water, no show of oil. Recovered over 300 BW from swabbing, no show of oil or gas. Prepare to sqz perforated interval 3727-3953'.

3/12/13 – Set CICR at 3858'. Squeeze perforations 3908-3953' with 175 sx of type 3 cement (14.8 PPG, 1.33 cuft/sx). Final squeeze pressure 1830 PSI, stung out of retainer and circulate tubing and casing. PU 2nd CICR and set at 3690' and squeezed perforation at 3727' with 100 sx of type 3 cement (14.8 ppg, 1.33 cuft/sx yield). Final squeeze PSI 1890 PSI, stung out of retainer and circulated tubing and casing clean.

3/14/13 - PU bit and tubing and drill out CICR and cement. Tagged TOC above retainer at 3458'. Drilled out cmt to top of CICR at 3690' and tested casing to 500 PSI for 15 min, held good. Drilled out CICR @ 3690'.

3/15/13 – TOOH with tri-cone bit and laid it down. PU mill and TIH, tagged TOC @ 3693'. Drill out cement to top of CICR @ 3858' and tested casing to surface at 500 PSI for 30 min, held good. Drilled out CICR @ 3858 and continue drilling cement to 3860'.

3/16/13 – Drill cement from 3863-3960' and circulate the well clean. Continue cleaning well down to 4926'. Load and test casing from 4926' to surface at 500 PSI for 30 min, held good. RU swab tools and swab test for fluid entry. Swabbed tubing and found no sign of fluid entry. RD swab tools. Drilled out composite bridge plug @ 4970'.

3/17/13 – Drill out frac plug @ 5210'. Continue and drill out composite frac plug @ 5414'. Continue and drill out composite frac plug @ 5752'.

3/18/13 – Drill out composite bridge plug @ 6100'. Continue cleaning out well to PBTD @ 6616'.

3/20/13 – PU 2-7/8", J-55, 6.5#, tubing/BHA and set EOT @ 4887', SN @ 4855', TAC @ 4790'. PU rods/pump and TIH w/ 2" insert pump on 3/4" rods. Test pump for good pump action. RDMO.

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