Form 3160-4
(March 2012)

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Farmington Field Office
Bureau of Land Management

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. Jicarilla Tribal #424

1a. Type of Well ☑ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☑ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
Other: _____

6. If Indian, Allottee or Tribe Name: Jicarilla Apache

7. Unit or CA Agreement Name and No.

2. Name of Operator: Logos Capital Management, LLC

8. Lease Name and Well No.: Logos #1

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

3a. Phone No. *(include area code)*: 505-436-2627

9. API Well No.: 30-043-21119

4. Location of Well *(Report location clearly and in accordance with Federal requirements)**

At surface: 1610' FNL & 1710' FWL

At top prod. interval reported below: Same as above.

At total depth: Same as above.

10. Field and Pool or Exploratory: Basin Dakota

11. Sec., T., R., M., on Block and Survey or Area: Sec. 5, T22N, R5W

12. County or Parish: Sandoval

13. State: NM

14. Date Spudded	15. Date T.D. Reached	16. Date Completed	17. Elevations (DF, RKB, RT, GL)*
05/29/2012	06/05/2012	☐ D & A ☑ Ready to Prod.	6907' GL

18. Total Depth: MD / TVD	19. Plug Back T.D.: MD / TVD	20. Depth Bridge Plug Set: MD / TVD
6630'	6610'	

21. Type Electric & Other Mechanical Logs Run (Submit copy of each): GR/CCL/CBL

22. Was well cored? ☑ No ☐ Yes (Submit analysis)
Was DST run? ☑ No ☐ Yes (Submit report)
Directional Survey? ☑ No ☐ Yes (Submit copy)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#	0	518'	N/A	400	99	surface	0
7-7/8"	5-1/2" P-110	17#	0	6630'	2896', 4497'	815	208	surface	0

OIL CONS. DIV. DIST. 3
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24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
To be	reported on	1st delivery date.						

25. Producing Intervals / 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Upper Basin Dakota	5928	6249	1 SPF	0.43"	42	open
B) Lower Basin Dakota	6342	6492	1 SPF	0.43"	30	open
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
5928-6249 (upper DK)	Frac'ed the Upper Dakota with two 1,000 gal 15% HCl stages, 11,562# of 100 mesh sand,
	followed by 125,840# of 40/70 Ottawa sand in 9380 BBLs of slick-water. AIP at 3765 PSI.
6342-6492 (lower DK)	Frac'ed the Lower Dakota with two 1,000 gal 15% HCl stages, 10,000# of 100 mesh sand,
	followed by 70,700# of 40/70 Ottawa sand in 6480 BBLs of slick-water. AIP at 3875 PSI.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
									To be reported on 1st delivery date.

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status

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BY _____

*(See instructions and spaces for additional data on page 2)

NMOCD

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status

29. Disposition of Gas *(Solid, used for fuel, vented, etc.)*
Flowing well back, Gas TSTM.

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
Ojo Alamo	1395				
Kirtland	1550				
Fruitland Coal	1780				
Pictured Cliffs	1920				
Lewis Shale	2023				
Chacra	2324				
Cliffhouse	3435				
Menefee	3480				
Point Lookout	4145				
Mancos	4340				
Greenhorn	6130				
Dakota	6202				

32. Additional remarks (include plugging procedure):

33. Indicate which items have been attached by placing a check in the appropriate boxes:

☐ Electrical/Mechanical Logs (1 full set req'd.) ☐ Geologic Report ☐ DST Report ☐ Directional Survey

☐ Sundry Notice for plugging and cement verification ☐ Core Analysis ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name *(please print)* Kristy Graham Title Director of Administration and Engineering Support

Signature Date 08/28/2012

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.

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