

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

Confidential

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG NOV 25 2013

1. Lease Serial No. Jicarilla Apache Lease 424

2. Name of Operator Logos Operating, LLC

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

3a. Phone No. (include area code) 505-330-9333

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
2075' FSL & 1730' FWL, UL K
At surface Same as above.
At top prod. interval reported below Same as above.
At total depth Same as above.

5. Type of Well Oil Well Gas Well Dry Other

6. Type of Completion: New Well Work Over Deepen Plug Back Diff. Resv.

7. Unit or CA Agreement Name and No.

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6. Indian, Allottee or Tribe Name Jicarilla Apache Nation

8. Lease Name and Well No. Logos #11

9. API Well No. 30-043-21159-0051

10. Field and Pool or Exploratory Wildcat Gallup

11. Sec., T., R., M., on Block and Survey or Area Sec. 6, T22N, R5W

12. County or Parish Sandoval

13. State NM

14. Date Spudded 11/04/2013

15. Date T.D. Reached 11/10/2013

16. Date Completed 11/22/2013
 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)* 6962' GL

18. Total Depth: MD TVD 6325'

19. Plug Back T.D.: MD TVD 6271'

20. Depth Bridge Plug Set: MD TVD

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

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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	9-5/8" J-55	36	0	503'	N/A	254 sks	63 bbls	surface	25 bbls
7-7/8"	5-1/2" P-110	17	0	6316'	4429'	885 sks	295 bbls	surface	50 bbls

RCVD NOV 25 '13
OIL CONS. DIV.
DIST. 3

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	not yet							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Gallup	4330'	6171'	4990'-6150'	0.38"	228	open
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
6080'-6150'	Frac w/52bbls of 12% HCL; 4 092bbls Slickwater, 10,413# 100Mesh 40,140# 40/70 Ottawa Sand
5850'-5960'	Frac w/49bbls of 12% HCL; 6211bbls Slickwater, 4,980# 100Mesh, 80,877# 40/70 Ottawa Sand
5348'-5456'	Frac w/63bbls of 12% HCL; 2864bbls Slickwater 70Q N2, 10,135# 100Mesh, 93,140# 40/70 Ottawa Sand, 2.49mmscf N2
5198'-5313'	**see #32 for 5th Frac w/53bbls of 12% HCL; 2687bbls Slickwater 70Q N2, 9,736# 100Mesh, 102,134# 40/70 Ottawa Sand, 2.56mmscf N2

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
			→	0	0	0			Flowtest will be reported on 1st Delivery.
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
		0	→	0	0	0			

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	
			→						

ACCEPTED FOR RECORD

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

NOV 25 2013

NMOCDA

FARMINGTON FIELD OFFICE
31 TL Salyers

23b. 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.)

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 Kirtland	1370 1564				
Fruitland Pictured Cliffs	— 1909				
Lewis Cliff House	2019 3410				
Menefee Point Lookout	— 4141				
Marcos Gallup	4330 5222				
Greenhorn Graneros	6123 6171				
Dakota	6190				

32. Additional remarks (include plugging procedure):

#27
**4990'-5098' Frac w/50bbbls of 12% HCL; 3767 bbls of slickwater, 9,736# of 100Mesh; 60,529# 40/70 sand.

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) Tamra Sessions Title Operations Technician
 Signature *Tamra Sessions* Date 11/24/2013

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.