

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

MAR 05 2014

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other  
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resv.  
Other: \_\_\_\_\_

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)\*  
At surface 440' FNL & 560' FWL, UL D  
At top prod. interval reported below 430' FNL & 65' FEL, UL A; Sec 6, T22N, R5W  
At total depth 432' FNL & 250' FWL, UL D; Sec 6, T22N, R5W (Loc of Bot perf is 438' FNL & 394' FWL)

10. Field and Pool or Exploratory  
WC 22N5W6; Wildcat Gallup

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 01/12/2014

15. Date T.D. Reached 01/26/2014

16. Date Completed 03/05/2014  
☐ D & A ☒ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
6891' GL

18. Total Depth: MD 10747'  
TVD 5403'

19. Plug Back T.D.: MD 10702'  
TVD

20. Depth Bridge Plug Set: MD  
TVD

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

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	501'	N/A	320 sks	63 bbls	surface	25 bbls
8-3/4"	7" J-55	23	0	5770'	4416'	780 sks	245 bbls	surface	60 bbls
6-1/8"	4-1/2" P-110	11.6	4945'	10747'	N/A	410 sks	105 bbls	surface	10 bbls

RCVD MAR 6 '14  
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	4343'	10747'	5781'-10597'	0.38"	534	open
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
10414'-10597'	Frac w/48bbls of 15% HCL; 3677bbls Slickwater 70Q N2, 7246# 100Mesh, 197460# 40/70 Ottawa Sand, 3.697mmcsf N2
10141'-10358'	Frac w/48bbls of 15% HCL; 3688bbls Slickwater 70Q N2, 7148# 100Mesh, 210600# 40/70 Ottawa Sand, 3.858mmcsf N2
9874'-10085'	Frac w/48bbls of 15% HCL; 3612bbls Slickwater 70Q N2, 7086# 100Mesh, 210860# 40/70 Ottawa Sand, 3.538mmcsf N2
** see attachment for remaining stages	

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

MAR 06 2014

FARMINGTON FIELD OFFICE  
BY: \_\_\_\_\_

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

NMOCDA

CONFIDENTIAL

Page 2 of Completion Report 3160-4

## **27. Acid, Fracture, Treatment, Cement Squeeze, etc. (cont)**

Depth Interval	Amount and Type of Material	
9597'-9813'	#4	Frac w/48bbbls of 15% HCL; 3799bbbls Slickwater 70Q N2, 7172# 100Mesh, 202130# 40/70 Ottawa Sand, 3.637mmscf N2
9325'-9541'	#5	Frac w/48bbbls of 15% HCL; 3617bbbls Slickwater 70Q N2, 7288# 100Mesh, 203474# 40/70 Ottawa Sand, 3.511mmscf N2
9054'-9269'	#6	Frac w/48bbbls of 15% HCL; 3249bbbls Slickwater 70Q N2, 6940# 100Mesh, 207080# 40/70 Ottawa Sand, 3.169mmscf N2
8780'-8996'	#7	Frac w/48bbbls of 15% HCL; 3512bbbls Slickwater 70Q N2, 7797# 100Mesh, 202163# 40/70 Ottawa Sand, 3.231mmscf N2
8508'-8724'	#8	Frac w/48bbbls of 15% HCL; 3552bbbls Slickwater 70Q N2, 7030# 100Mesh, 199513# 40/70 Ottawa Sand, 3.438mmscf N2
8236'-8452'	#9	Frac w/48bbbls of 15% HCL; 3315bbbls Slickwater 70Q N2, 6869# 100Mesh, 207236# 40/70 Ottawa Sand, 3.07mmscf N2
7963'-8180'	#10	Frac w/24bbbls of 15% HCL; 3613bbbls Slickwater 70Q N2, 7060# 100Mesh, 202311# 40/70 Ottawa Sand, 3.185mmscf N2
7691'-7907'	#11	Frac w/24bbbls of 15% HCL; 3340bbbls Slickwater 70Q N2, 7000# 100Mesh, 206048# 40/70 Ottawa Sand, 3.263mmscf N2
7419'-7635'	#12	Frac w/24bbbls of 15% HCL; 3523bbbls Slickwater 70Q N2, 6714# 100Mesh, 201860# 40/70 Ottawa Sand, 3.628mmscf N2
7146'-7359'	#13	Frac w/24bbbls of 15% HCL; 3381bbbls Slickwater 70Q N2, 7348# 100Mesh, 208120# 40/70 Ottawa Sand, 3.2mmscf N2
7090'-6874'	#14	Frac w/24bbbls of 15% HCL; 3184bbbls Slickwater 70Q N2, 7290# 100Mesh, 204140# 40/70 Ottawa Sand, 3.2mmscf N2
6818'-6602'	#15	Frac w/24bbbls of 15% HCL; 3136bbbls Slickwater 70Q N2, 7302# 100Mesh, 202700# 40/70 Ottawa Sand, 3.0mmscf N2
6548'-6330'	#16	Frac w/24bbbls of 15% HCL; 3731bbbls Slickwater 70Q N2, 7634# 100Mesh, 208420# 40/70 Ottawa Sand, 3.5mmscf N2
6269'-6055'	#17	Frac w/24bbbls of 15% HCL; 3606bbbls Slickwater 70Q N2, 7424# 100Mesh, 208160# 40/70 Ottawa Sand, 3.4mmscf N2
6001'-5781'	#18	Frac w/24bbbls of 15% HCL; 4338bbbls Slickwater 70Q N2, 6998# 100Mesh, 194100# 40/70 Ottawa Sand, 3.7mmscf N2

## 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.)

## 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					
Fruitland Pictured Cliffs					
Chacra Cliff House	2336 3432				
Menefee Point Lookout	3446 4152				
Mancos Gallup	4343 5257				
Greenhorn Graneros					
Dakota					

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) Tamra SessionsTitle Operations TechnicianSignature Date 03/04/2014

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.

(Continued on page 3)

(Form 3160-4, page 2)