

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

NOV 29 2012

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Farmington Field Office
Bureau of Land Management

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other		5. Lease Serial No. Jicarilla Tribal #424							
b. Type of Completion: <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr.		6. If Indian, Allottee or Tribe Name Jicarilla Apache							
Other:		7. Unit or CA Agreement Name and No.							
2. Name of Operator Logos Capital Management, LLC		8. Lease Name and Well No. Logos #2							
3. Address 4001 North Butler, Building 7101 Farmington, NM 87401		9. API Well No. 30-043-21120							
3a. Phone No. (include area code) 505-436-2627		10. Field and Pool or Exploratory WC 22N5W6; Dakota(O) 97990							
4. Location of Well (Report location clearly and in accordance with Federal requirements)* 1930' FSL & 730' FEL At surface Same as above. At top prod. interval reported below At total depth Same as above.		11. Sec., T., R., M., on Block and Survey or Area Sec. 6, T22N, R5W							
14. Date Spudded 09/28/2012		15. Date T.D. Reached 10/04/2012							
16. Date Completed 11/02/2012 <input type="checkbox"/> D & A <input type="checkbox"/> Ready to Prod.		17. Elevations (DIF, RKB, RT, GL)* 6901' GL							
18. Total Depth: MD 6639' TVD		19. Plug Back T.D.: MD 6622' TVD							
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? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit copy)									
23. Casing and Liner Record (Report all strings set in well)									
Hole Size	Size/Grade	Wt. (lb/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#	0	351'	N/A	242	65	surface	0
7-7/8"	5-1/2" P-110	17#	0	6639'	2557', 4473'	1076	321	surface	0
RCUD NOV 29 '12 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)	
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 Dakota**	6149'	6220'	1 SPF	0.43"	20	open			
B) Lower Dakota	6296'	6583'	1 SPF	0.43"	33	open			
C)									
D)									
27. Acid, Fracture, Treatment, Cement Squeeze, etc.									
Depth Interval		Amount and Type of Material							
5894'-6220'		Frac'ed the Upper Dakota and Sanostee with 2,000 gal 15% HCL, 10,000 lbs of 100 mesh sand, followed by 98,326 lbs of 40/70 sand, and 8,054 bbls of slick-water. AIP at 5900 PSI.							
6296'-6583'		Frac'ed the Lower Dakota with 2,000 gal 15% HCL, 10,000 lbs of 100 mesh sand, followed by 56,949 lbs of 40/70 white sand, and 5,021 bbls of slick-water. AIP at 5600 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 BY
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

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

NMOCD

CONFIDENTIAL

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 Kirtland	1340 1620				
Pictured Cliffs Lewis Shale	1853 1944				
Chacra Cliffhouse	2276 3375				
Menefee Point Lookout	3413 4102				
Mancos Niobrara A	4297 5027		Niobrara B top 5130, Niobrara C top 5247		
Greenhorn Graneros	6093 6140				
Dakota Morrison	6160 6604				

32. Additional remarks (include plugging procedure):

**The lower Gallup perforations were frac'd with the Dakota based on the rock properties.

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 GrahamTitle Director of Administration and Engineering SupportSignature Date 11/21/2012

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.

(Continued on page 3)

(Form 3160-4, page 2)

CONFIDENTIAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

NOV 29 2012

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. Resrv.
Other: _____

2. Name of Operator
Logos Capital Management, LLC
3. Address 4001 North Butler, Building 7101
Farmington, NM 87401
3a. Phone No. (include area code)
505-436-2627

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
1930' FSL & 730' FEL
At surface

At top prod. interval reported below
Same as above.
At total depth Same as above.

14. Date Spudded 09/28/2012
15. Date T.D. Reached 10/04/2012
16. Date Completed 11/02/2012
☐ D & A ☐ Ready to Prod.
17. Elevations (DF, RKB, RT, GL)*
6901' GL
18. Total Depth: MD 6639' TVD
19. Plug Back T.D.: MD 6622' TVD
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. (lb/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	351'	N/A	242	65	surface	0
7-7/8"	5-1/2" P-110	17#	0	6639'	2557', 4473'	1076	321	surface	0

RCVD NOV 29 '12
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)	
To be reported on	1st delivery date.								

25. Producing Intervals				26. Perforation Record			
Formation	Top	Bottom		Perforated Interval	Size	No. Holes	Perf. Status
A) MesaVerde	4061'	4071'		3 SPF	0.43"	30	open
B)							
C)							
D)							

27. Acid, Fracture, Treatment, Cement Squeeze, etc.		Amount and Type of Material
Depth Interval		
4061'-4071'		Acid Stimulation. Pumped 500 gal of 15% HCL.


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
11/12/12	11/12/12	6	➡	1.2	TSTM	1.8			Swabbing. To be reported on 1st delivery date.
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. 0	24 Hr. Rate	Oil BBL.	Gas MCF	Water BBL.	Gas/Oil Ratio	Well Status	
			➡	4.8	TSTM	7.2			

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

NOV 29 2012

FARMINGTON FIELD OFFICE

BY 

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

FARMINGTON

A NMOCD

ACCEPTED FOR RECORD

NOV 29 2012

FARMINGTON FIELD OFFICE
BY

CONFIDENTIAL

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	1340				
Kirtland	1620				
Pictured Cliffs	1853				
Lewis Shale	1944				
Chacra	2276				
Cliffhouse	3375				
Menefee	3413				
Point Lookout	4102				
Mancos	4297				
Niobrara A	5027		Niobrara B top 5130, Niobrara C top 5247		
Greenhorn	6093				
Graneros	6140				
Dakota	6160				
Morrison	6604				

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

Kristy Graham

Date 11/21/2012

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.

(Continued on page 3)

(Form 3160-4, page 2)

CONFIDENTIAL