

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

APR 04 2013

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Farmington Field Office
Bureau of Land Management

5. Lease Serial No. NMNM 109398

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No. **Report To Lease**

8. Lease Name and Well No. Logos #5

9. API Well No. 30-045-35423 -0002

10. Field and Pool or Exploratory Basin Dakota

11. Sec., T., R., M., on Block and Survey or Area Sec. 4, T23N, R8W

12. County or Parish San Juan 13. State NM

17. Elevations (DF, RKB, RT, GL)* 6867' GL

14. Date Spudded 01/30/2013 15. Date T.D. Reached 02/19/2013 16. Date Completed 03/13/2013
 D & A Ready to Prod.

18. Total Depth: MD 6443' TVD 19. Plug Back T.D.: MD 6390' 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. (#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	343'	N/A	182 cu ft	32 bbls	surface	0
7-7/8"	5-1/2" L-80	17	0	6435'	4267'	890 sks	290 bbls	surface	0

RCUD APR 5 '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"	6.5# J55 5155'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Dakota	6116'	6122'	2 SPF	0.38"	12	open
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
**5960'-6122'	frac w/ 2,000 gal of 12% HCl; 10,001# of 100 mesh sand; 41,545# of 40/70 sand; 4,038 BBLs of slickwater

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
3/25/13	3/25/13	8.5	→	2.6	TSTM	84			swabbing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
	no tbg	0	→	7	TSTM	237			pumping

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

APR 04 2013

FARMINGTON FIELD OFFICE
BY *William Tambakov*

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

NMOCDAV

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.)
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	950				
Kirtland	1164				
Fruitland	1685				
Pictured Cliffs	1690				
Cliffhouse	3100				
Menefee	3150				
Point Lookout	4040				
Mancos	4150				
Gallup	5040				
Greenhorn	5972				
Dakota	6100				

32. Additional remarks (include plugging procedure):

**The lower Gallup perforations were frac'd with the Dakota based on the rock properties. Actual Dakota perforations 6116'-6122'.

CONFIDENTIAL

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 Production Engineer
 Signature *Kristy Graham* Date 04/03/2013

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.

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

APR 04 2013

1a. Type of Well Oil Well Gas Well Dry Other
 b. Type of Completion: New Well Work Over Deepen Plug Back Diff. Resvr.
 Other: _____
 Farmington Field Office
Bureau of Land Management

2. Name of Operator
Logos Operating, LLC

3. Address 4001 North Butler Ave, Building 7101
Farmington, NM 87401 3a. Phone No. (include area code)
505-436-2627

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
671' FSL & 973' FEL
At surface Same as above.
At top prod. interval reported below
At total depth Same as above.

5. Lease Serial No.
NMNM 109398

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
Report To Lease

8. Lease Name and Well No.
Logos #5

9. API Well No.
30-045-35423 - 0001

10. Field and Pool or Exploratory Basin Mancos

11. Sec., T., R., M., on Block and Survey or Area Sec. 4, T23N, R8W

12. County or Parish San Juan 13. State NM

14. Date Spudded 01/30/2013 15. Date T.D. Reached 02/19/2013 16. Date Completed 03/13/2013
 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
6867' GL

18. Total Depth: MD 6443' TVD 19. Plug Back T.D.: MD 6390' 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. (#/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	343'	N/A	182 cu ft	32 bbls	surface	0
7-7/8"	5-1/2" L-80	17	0	6435'	4267'	890 sks	290 bbls	surface	0

**RCUD APR 5 '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"	6.5#J55 5155'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Gallup	5180'	6034'	2 SPF	0.38"	192	open
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
	Please refer to section #32 for frac details.

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
3/17/13	3/17/13	6	→	0	0	131			flowing Please refer to section #32 for test details.
Choke Size	1bg. Press. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio		Well Status
	SI	0	→	0	0	524			pumping

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	1bg. Press. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio		Well Status
	SI		→						

APR 04 2013

FARMINGTON FIELD OFFICE
BY William Tambakou

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

NMOCDA

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.)
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
					Mcas. Depth
Ojo Alamo Kirtland	950 1164				
Fruitland Pictured Cliffs	1685 1690				
Cliffhouse Menefee	3100 3150				
Point Lookout Mancos	4040 4150				
Gallup Greenhorn	5040 5972				
Dakota	6100				

CONFIDENTIAL

32. Additional remarks (include plugging procedure):

#25 **The lower Gallup perforations were frac'd with the Dakota based on the rock properties. Actual Gallup perms 5180'-6034'

#27

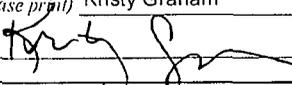
5180'-5196' frac w/ 2,000 gal of 12% HCl; 10,340# of 100 mesh sand; 63,250# of 40/70 sand; 70Q Foam (2,441 BBLS of slickwater and 2.14MMSCF N2)
5253'-5324' frac w/ 2,000 gal of 12% HCl; 10,206# of 100 mesh sand; 103,450# of 40/70 sand; 70Q Foam (2,939 BBLS of slickwater and 2.47MMSCF N2)
5370'-5400' frac w/ 2,000 gal of 12% HCl; 10,209# of 100 mesh sand; 82,763# of 40/70 sand; 5,429 BBLS of slickwater
5616'-5770' frac w/ 2,000 gal of 12% HCl; 10,225# of 100 mesh sand; 82,094# of 40/70 sand; 5,581 BBLS of slickwater
**5960'-6122' frac w/ 2,000 gal of 12% HCl; 10,001# of 100 mesh sand; 41,545# of 40/70 sand; 4,038 BBLS of slickwater, actual Gallup perms 5180'-6034'

#28 LOGOS will file a subsequent production sundry upon recovery of frac load. Well blew dead before recovering any hydrocarbons; only recovered frac water and nitrogen.

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 Production Engineer
Signature  Date 04/03/2013

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.