

Amended

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

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

MAR 29 2013

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Farmington Field Office

5. Lease Serial No.
NMNM 109387

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

6. If Indian, Allottee or Tribe Name
7. Unit or CA Agreement Name and No.

2. Name of Operator
Logos Operating, LLC

8. Lease Name and Well No.
Logos #3

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

3a. Phone No. (include area code)
303-550-1877

9. API Well No.
30-043-21135 - 0022

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
741' FSL & 1263' FEL
At surface
Same as above.
At top prod. interval reported below
At total depth Same as above.

10. Field and Pool or Exploratory
WC 22N6W5; DAKOTA (O) 97997

11. Sec., T., R., M., on Block and Survey or Area Sec. 5, T22N, R6W

12. County or Parish Sandoval
13. State NM

14. Date Spudded 01/24/2013
15. Date T.D. Reached 02/06/2013
16. Date Completed 02/23/2013
 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
7181' GL

18. Total Depth: MD 6695' TVD
19. Plug Back T.D.: MD 6641' TVD *6616*

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	319'	N/A	162 cu ft	29 bbls	surface	0
7-7/8"	5-1/2" L-80	17	0	6686'	4915'	946 sks	309 bbls	surface	0

**RCVD APR 2 '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 4887'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Upper Dakota**	6266'	6272'	2 SPF	0.38"	12	open
B)						
C)						
D)						

26. Perforation Record

Depth Interval	Amount and Type of Material
**6140'-6272'	**Frac'd w/ 2000 gal 10% HCl, 3,914 bbls Slickwater, 10,640# 100 mesh sand, & 40,120# 40/70 sand

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

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
3/19/13	3/19/13	3	→	3	TSTM	30			Swabbing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
	SI no tbg	0	→	24	TSTM	240		Shut-in	

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	
	SI		→						

**ACCEPTED FOR RECORD
APR 11 2013**

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

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FARMINGTON FIELD OFFICE
BY *William Tambekar*

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	1350 1480				
Fruitland Pictured Cliffs	1910 1920				
Cliffhouse Menefee	3390 3420				
Point Lookout Mancos	4220 4350				
Gallup Greenhorn	5190 6240				
Dakota	6266				

32. Additional remarks (include plugging procedure):

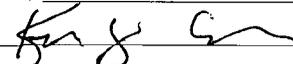
**The lower Gallup perforations were frac'd with the Dakota based on the rock properties.

This is an amended report to correct #15 date TD reached and update frac data.

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 03/29/2013

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.

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DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

MAR 22 2013

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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 109387

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

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator
Logos Operating, LLC

8. Lease Name and Well No.
Logos #3

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

3a. Phone No. (include area code)
303-550-1877

9. API Well No.
30-043-21135-0002

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

741' FSL & 1263' FEL
At surface

10. Field and Pool or Exploratory
WC 22N6W5; DAKOTA (O) 97997

11. Sec., T., R., M., on Block and
Survey or Area Sec. 5, T22N, R6W

Same as above.

At top prod. interval reported below

At total depth Same as above.

12. County or Parish Sandoval
13. State NM

14. Date Spudded
01/24/2013

15. Date T.D. Reached
02/08/2013

16. Date Completed 02/23/2013
 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
7181' GL

18. Total Depth: MD 6695'
TVD

19. Plug Back T.D.: MD 6641'
TVD 6616

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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	9-5/8" J-55	36	0	319'	N/A	162 cu ft	29 bbls	surface	0
7-7/8"	5-1/2" L-80	17	0	6686'	4915'	946 sks	309 bbls	surface	0

RCVD MAR 25 '13
OIL CONS. DIV.
D.S.T.

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 4887'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Upper Dakota**	6266'	6272'	2 SPF	0.38"	12	open
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
**6140'-6272'	**Frac'd with 47 bbls 10% HCl, 3914 bbls slickwater, 10,000# 100 mesh sand, 40,120# 40/70 sand

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
3/19/13	3/19/13	3	→	3	TSTM	30			Swabbing
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
SI	no tbg	0	→	24	TSTM	240		Shut-in	

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

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

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NMOCDA

MAR 25 2013

FARMINGTON FIELD OFFICE
BY T. Salveson

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	1350				
Kirtland	1480				
Fruitland	1910				
Pictured Cliffs	1920				
Cliffhouse	3390				
Menelec	3420				
Point Lookout	4220				
Mancos	4350				
Gallup	5190				
Greenhorn	6240				
Dakota	6266				

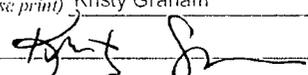
32. Additional remarks (include plugging procedure):

**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 Graham Title Director of Administration and Engineering Support
 Signature  Date 03/21/2013

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.

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Farmington Field Office

5. Lease Serial No.
NMNM 109387

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

6. If Indian, Allottee or Tribe Name
 7. Unit or CA Agreement Name and No.

2. Name of Operator
Logos Operating, LLC

8. Lease Name and Well No.
Logos #3

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

3a. Phone No. (include area code)
303-550-1877

9. API Well No.
30-043-21135 - 0001

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

741' FSL & 1263' FEL
At surface

10. Field and Pool or Exploratory
WC 22N6W5; GALLUP(O) 98013

11. Sec., T., R., M., on Block and
Survey or Area Sec. 5, T22N, R6W

At top prod. interval reported below
Same as above.

12. County or Parish
Sandoval

13. State
NM

At total depth Same as above.

14. Date Spudded
01/24/2013

15. Date T.D. Reached
02/06/2013

16. Date Completed 02/23/2013
 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
7181' GL

18. Total Depth: MD 6695'
TVD

19. Plug Back T.D.: MD ~~6644'~~
TVD **6616**

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	319'	N/A	162 cu ft	29 bbls	surface	0
7-7/8"	5-1/2" L-80	17	0	6686'	4915'	946 sks	309 bbls	surface	0

**RCVD APR 2 '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 4887'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Gallup**	5024'	6236'		0.38"	120	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
3/2/13	3/4/13	24	→	120	TSTM	741			flowing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
16/64	no tbg	15 psi	→	120	TSTM	741		Shut-in	

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. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
	SI		→						

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

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APR 02 2013

FARMINGTON FIELD OFFICE
BY William Tambakov

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 Kiriland	1350 1480				
Fruitland Pictured Cliffs	1910 1920				
Cliffhouse Menefee	3390 3420				
Point Lookout Mancos	4220 4350				
Gallup Greenhorn	5190 6240				
Dakota	6266				

32. Additional remarks (include plugging procedure):

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

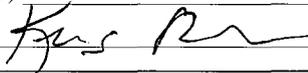
5024'-5150' Frac'd w/ 2000 gal 10% HCl, 6,633 bbls Slickwater, 10,000# 100 mesh, & 90,500# 40/70 sand
 5268'-5392' Frac'd w/ 2000 gal 10% HCl, 2,401 bbls Slickwater, 10,000# 100 mesh, 94,000# 40/70 sand, & 2,300,000 scf N2
 5440'-5504' Frac'd w/ 2000 gal 10% HCl, 2,245 bbls Slickwater, 10,840# 100 mesh, 93,805# 40/70 sand, & 2,642,562 scf N2
 5838'-6050' Frac'd w/ 2000 gal 10% HCl, 6,072 bbls Slickwater, 10,000# 100 mesh sand, & 71,065# 40/70 sand
 **6140'-6236' Frac'd w/ 2000 gal 10% HCl, 3,914 bbls Slickwater, 10,640# 100 mesh sand, & 40,120# 40/70 sand

This is an amended report to correct #15 date TD reached, the frac detail, and to include tubing data.

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
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Name (please print) Kristy Graham Title Director of Administration and Engineering Support
 Signature  Date 03/29/2013

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WELL COMPLETION OR RECOMPLETION REPORT AND LOG

MAR 08 2013

1. Lease Serial No. NMNM 109387

2. Name of Operator: Logos Operating, LLC

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

3a. Phone No. (include area code): 303-550-1877

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface: 741' FSL & 1263' FEL
At top prod. interval reported below: Same as above.
At total depth: Same as above.

5. Lease Name and Well No.: Logos #3

6. Indian, Allottee or Tribe Name: _____

7. Unit or CA Agreement Name and No.: _____

8. API Well No.: 30-043-21135-0051

9. Field and Pool or Exploratory: WC 22N6W5; GALLUP(O) 96884

10. Sec., T., R., M., on Block and Survey or Area: Sec. 5, T22N, R6W

11. County or Parish: Sandoval; State: NM

12. Date Spudded: 01/24/2013; 13. Date First Reached: 02/08/2013

14. Date Completed: 02/23/2013; 15. D & A: ; Ready to Prod.:

16. Total Depth: MD 6695' TVD; 17. Plug Back T.D.: MD 6641' TVD; 18. Depth Bridge Plug Set: MD TVD

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

20. Was well cored? No; Was DST run? No; Directional Survey? No

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

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7-7/8"	5-1/2" L-80	17	0	6686'	4915'	946 sks	309 bbls	surface	0

22. 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.							

23. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Gallup**	5024'	6236'		0.38"	120	open

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

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

25. 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
3/2/13	3/4/13	24	→	120	TSTM	741			flowing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
16/64	no lbg	15 psi	→	120	TSTM	741		Shut-in	

26. 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	
	SI		→						

ACCEPTED FOR RECORD

MAR 12 2013

FARMINGTON FIELD OFFICE
BY TL Salyers

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

NMOCDF

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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	Thg. 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	Thg. 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	1350				
Kirtland	1480				
Fruiland	1910				
Pictured Cliffs	1920				
Cliffhouse	3390				
Menehag	3420				
Point Lookout	4220				
Mancos	4350				
Gallup	5190				
Greenhorn	6240				
Dakota	6266				

32. Additional remarks (include plugging procedure):

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

5024'-5150' Frac'd w/ 4,348 bbls Slickwater, 10,000# 100 mesh, & 90,500# 40/70 sand
 5268'-5392' Frac'd w/ 2,447 bbls Slickwater, 10,000# 100 mesh, & 94,000# 40/70 sand
 5440'-5504' Frac'd w/ 2,293 bbls Slickwater, 10,000# 100 mesh, 100,359# 40/70 sand, & 2,642,562 scf N2
 5838'-6050' Frac'd w/ 3,763 bbls Slickwater, 10,000# 100 mesh sand, & 71,065# 40/70 sand
 *6140'-6236' *Frac'd w/ 2,342 bbls Slickwater, 10,000# 100 mesh sand, & 40,120# 40/70 sand

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

- Electrical/Mechanical Logs (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 03/07/2013

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.

Amended
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

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

MAR 22 2013

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Farmington Field Office

5. Lease Serial No.
NMNM 109387

a. Type of Well Oil Well Gas Well Dry Other
 b. Type of Completion: New Well Work Over Deepen Plug Back Diff. Resrv.,
 Other: ** MV Dry Hole Completion*

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator
Logos Operating, LLC

8. Lease Name and Well No.
Logos #3

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

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

9. API Well No.
30-043-21135-~~0001~~

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
741' FSL & 1263' FEL

10. Field and Pool or Exploratory
WC 22N6W5; Mesa Verde (O) ~~98000~~ **98014**

11. Sec., T., R., M., on Block and
Survey or Area Sec. 5, T22N, R6W

At surface Same as above.

At top prod. interval reported below

At total depth Same as above.

12. County or Parish Sandoval
13. State NM

14. Date Spudded
01/24/2013

15. Date T.D. Reached
02/08/2013

16. Date Completed 02/23/2013
 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
7181' GL

18. Total Depth: MD 6695'
TVD

19. Plug Back T.D.: MD ~~6641~~ **6616**
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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	9-5/8" J-55	36	0	319'	N/A	162 cu ft	29 bbls	surface	0
7-7/8"	5-1/2" L-80	17	0	6686'	4915'	946 sks	309 bbls	surface	0

ROUND HOLE 25' 10"
7 7/8" CONC. DRILL
DIST. 9

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

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Mesa Verde	3727'	3953'		0.38"	36	cemented** ✓
B)						
C)						
D)						

26. Perforation Record

Depth Interval	Amount and Type of Material
3727'-3953'	750 gal 15% HCl acid
3727'*	100 sks type 3 cmt**
3908'-3918', 3953'*	175 sks type 3 cmt**

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

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	
			→						

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)

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PV

MAR 25 2013

FARMINGTON FIELD OFFICE
BY T. Salyers

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	1350				
Kirtland	1480				
Fruitland	1910				
Pictured Cliffs	1920				
Cliffhouse	3390				
Menefee	3420				
Point Lookout	4220				
Mancos	4350				
Gallup	5190				
Greenhorn	6240				
Dakota	6266				

32. Additional remarks (include plugging procedure):

Logos completed a cement squeeze on the Mesa Verde perforations from 3727'-3953' to shut off excessive water. Logos perforated and swabbed approximately 300 bbls of water in 3 days with no show of oil. Logos swabbed ~265 barrels of water on 3/8/13-3/9/13 from perforations 3908'-3918'. Logos swabbed ~40 barrels of water from perfs @ 3727' on 3/11/2013. Logos performed the squeeze work on 3/12/2013-3/16/2013. Please see attached.

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 03/22/2013

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

RECEIVED

MAR 29 2013

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG
Farmington Field Office

5. Lease Serial No.
NMNM 109387

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

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator
Logos Operating, LLC

8. Lease Name and Well No.
Logos #3

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

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

9. API Well No.
30-043-21135 - 00X1

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

10. Field and Pool or Exploratory
WC 22N6W5; Mesa Verde (O) 98014

11. Sec., T., R., M., on Block and
Survey or Area Sec. 5, T22N, R6W

12. County or Parish Sandoval
13. State NM

At surface 741' FSL & 1263' FEL

Same as above.

At top prod. interval reported below

At total depth Same as above.

14. Date Spudded
01/24/2013

15. Date T.D. Reached
02/06/2013

16. Date Completed 02/23/2013
 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
7181' GL

18. Total Depth: MD 6695'
TVD

19. Plug Back T.D.: MD 6641'
TVD 6616

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. (Hft.)	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	319'	N/A	162 cu ft	29 bbls	surface	0
7-7/8"	5-1/2" L-80	17	0	6686'	4915'	946 sks	309 bbls	surface	0

RCVD APR 2 '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)
To be reported on	1st delivery date.							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Mesa Verde	3727'	3953'		0.38"	36	cemented**
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
3727'-3953'	750 gal 15% HCl acid
3727**	100 sks type 3 cmt**
3908'-3918', 3953**	175 sks type 3 cmt**

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
			→						
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	
			→						

ACCEPTED FOR RECORD

APR 02 2013

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

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NMCCD
A

FARMINGTON FIELD OFFICE
BY William Tambekou

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	1350 1480				
Fruiland Pictured Cliffs	1910 1920				
Cliffhouse Menefee	3390 3420				
Point Lookout Mancos	4220 4350				
Gallup Greenhorn	5190 6240				
Dakota	6266				

32. Additional remarks (include plugging procedure):

Logos completed a cement squeeze on the Mesa Verde perforations from 3727'-3953' to shut off excessive water. Logos perforated and swabbed approximately 300 bbls of water in 3 days with no show of oil. Logos swabbed ~265 barrels of water on 3/8/13-3/9/13 from perforations 3908'-3918'. Logos swabbed ~40 barrels of water from perfs @ 3727' on 3/11/2013. Logos performed the squeeze work on 3/12/2013-3/16/2013. Please see attached.

This is an amended report to correct #15 date TD reached.

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 03/28/2013

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