

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

MAY 23 2013

Amended

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 109399

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

6. If Indian, Allottee or Tribe Name

2. Name of Operator
Logos Operating, LLC

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

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

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

8. Lease Name and Well No.
Logos #6

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
1662' FNL & 1973' FEL

9. API Well No.
30-045-35422 - 0001

At surface

10. Field and Pool or Exploratory
Basin Dakota

At top prod. interval reported below

11. Sec., T., R., M., on Block and
Survey or Area Sec. 8, T23N, R8W

At total depth Same as above.

12. County or Parish
San Juan

13. State
NM

14. Date Spudded
02/06/2013

15. Date T.D. Reached
02/28/2013

16. Date Completed 05/04/2013
 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
6896' GL

18. Total Depth: MD 6230'
TVD

19. Plug Back T.D.: MD 6175'
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	333'	N/A	101 sks	29 bbls	surface	0
7-7/8"	5-1/2" P-110	17	0	6220'	4165'	872 sks	284 bbls	surface	0

RCVD MAY 23 '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 5092'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Dakota	5996'	5996'	2 SPF	0.38"	1	open
B)						
C)						
D)						

26. Perforation Record

Depth Interval	Amount and Type of Material
**5874'-5996'	Frac with 48 bbls of 15% HCl; 10,657# of 100 mesh sand; 39,813# of 40/70 sand; 4,337 bbls of slickwater

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
5/12/13	5/12/13	24	→	0	0	0			flowing Please refer to section #32 for test details.
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
	SI		→	0	0	0		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	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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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.)
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	873 1080		Dakota 6070		
Fruitland Pictured Cliffs	1502 1570				
Cliffhouse Menefee	3038 3065				
Point Lookout Mancos	3970 4150				
Niobrara A Niobrara B	4990 5015				
Niobrara C Carlisle	5100 5710				
Greenhorn Graneros	5930 5990				

32. Additional remarks (include plugging procedure):

#27

**5874'-5996' The lower Gallup perforations were frac'd with the Dakota based on the rock properties. Actual Dakota perf 5996'.

#28

LOGOS will file a subsequent production allocation sundry upon recovery of frac load. These initial tests are not representative of true production potential due to a large volume of frac fluid.

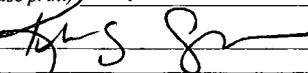
33. Indicate which items have been attached by placing a check in the appropriate boxes:

- 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 05/22/2013

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.

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8. Lease Name and Well No.
Logos #6

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

9. API Well No.
30-045-35422 -0002

1662' FNL & 1973' FEL

10. Field and Pool or Exploratory
Nageezi Gallup

At surface Same as above.

11. Sec., T., R., M., on Block and
Survey or Area Sec. 8, T23N, R8W

At top prod. interval reported below

CONFIDENTIAL

At total depth Same as above.

12. County or Parish
San Juan

13. State
NM

14. Date Spudded
02/06/2013

15. Date T.D. Reached
02/28/2013

16. Date Completed 05/04/2013
 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
6896' GL

18. Total Depth: MD 6230'
TVD

19. Plug Back T.D.: MD 6175'
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	333'	N/A	101 sks	29 bbls	surface	0
7-7/8"	5-1/2" P-110	17	0	6220'	4165'	872 sks	284 bbls	surface	0

RCVD MAY 23 '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 5092'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Gallup	5108'	5388'	3 SPF	0.38"	108	open
B) Sanostee	5580'	5730'	2 SPF	0.38"	42	open
C) Greenhorn	5874'	5982'	2 SPF	0.38"	33	open
D)						

26. Perforation Record

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

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
5/12/13	5/12/13	24	→	25	0	20			flowing Please refer to section #32 for test details.
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
		0	→	25	0	20		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	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

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

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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.)
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	873		Dakota 6070		
Kirtland	1080				
Fruitland	1502				
Pictured Cliffs	1570				
Cliffhouse	3038				
Menefee	3065				
Point Lookout	3970				
Mancos	4150				
Niobrara A	4990				
Niobrara B	5015				
Niobrara C	5100				
Carlisle	5710				
Greenhorn	5930				
Graneros	5990				

32. Additional remarks (include plugging procedure):

#27

5108'-5150' Frac with 48 bbls of 15% HCl; 9,377# 100 mesh sand; 77,093# of 40/70 sand; 5,521 bbls of slickwater
 5192'-5272' Frac with 48 bbls of 15% HCl; 10,078# of 100 mesh; 103,153# of 40/70 sand; 70Q Foam (2,619 bbls of Slickwater and 2.53 MMSCF N2)
 5324'-5388' Frac with 48 bbls of 15% HCl; 10,668# of 100 mesh sand; 79,874# of 40/70 sand; 70Q Foam (2,344 bbls of slickwater and 2.34 MMSCF N2)
 5580'-5730' Frac with 48 bbls of 15% HCl; 10,000# of 100 mesh sand; 82,440# of 40/70 sand; 8,187 bbls of slickwater
 **5874'-5996' Frac with 48 bbls of 15% HCl; 10,657# of 100 mesh sand; 39,813# of 40/70 sand; 4,337 bbls of slickwater, actual Gallup perms 5108'-5982'

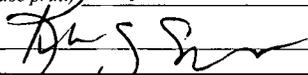
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LOGOS will file a subsequent production allocation sundry upon recovery of frac load. These initial tests are not representative of true production potential due to a large volume of frac fluid.

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
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 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 05/22/2013

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.

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1662' FNL & 1973' FEL

10. Field and Pool or Exploratory
Basin Dakota

At surface Same as above.

11. Sec., T., R., M., on Block and
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At top prod. interval reported below

12. County or Parish
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13. State
NM

At total depth Same as above.

14. Date Spudded
02/06/2013

15. Date T.D. Reached
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16. Date Completed 05/04/2013
 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
6896' GL

18. Total Depth: MD 6230'
TVD

19. Plug Back T.D.: MD 6175'
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
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7-7/8"	5-1/2" P-110	17	0	6220'	4165'	872 sks	284 bbls	surface	0

RCVD MAY 23 '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 5092'							

25. Producing Intervals

Formation	Top		Bottom	26. Perforation Record		Size	No. Holes	Perf. Status
	Top	Bottom		Perforated Interval	Size			
A) Dakota	5906'	5874'	5996'	1	SPF	0.38"	34	open
B)				2				
C)								
D)								

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

Depth Interval	Amount and Type of Material
**5874'-5996'	Frac with 48 bbls of 15% HCl; 10,657# of 100 mesh sand; 39,813# of 40/70 sand; 4,337 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
5/12/13	5/12/13	24	→	0	0	0			flowing Please refer to section #32 for test details.
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
	SI	0	→	0	0	0		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	Tbg. Press. Flwg. SI	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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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.)
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32. Additional remarks (include plugging procedure):

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**5874'-5996' The lower Gallup perforations were frac'd with the Dakota based on the rock properties. Actual Dakota perf 5996'.

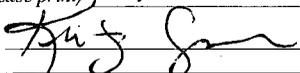
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25. Producing Intervals

Formation	Top		Bottom		26. Perforation Record		No. Holes	Perf. Status
	Perforated Interval	Size	Perforated Interval	Size	Perforated Interval	Size		
A) Gallup	5180'	5388'	3 SPF	0.38"			108	open
B) Sanostee	5580'	5730'	2 SPF	0.38"			42	open
C) Greenhorn	5874'	5982'	2 SPF	0.38"			33	open
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
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			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

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NM000 Ar

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.)
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	873 1080		Dakota 6070		
Fruitland Pictured Cliffs	1502 1570				
Cliffhouse Menefee	3038 3065				
Point Lookout Mancos	3970 4150				
Niobrara A Niobrara B	4990 5015				
Niobrara C Carlisle	5100 5710				
Greenhorn Graneros	5930 5990				

32. Additional remarks (include plugging procedure):

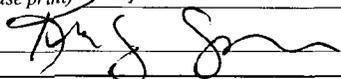
#27
5108'-5150' Frac with 48 bbls of 15% HCl; 9,377# 100 mesh sand; 77,093# of 40/70 sand; 5,521 bbls of slickwater
5192'-5272' Frac with 48 bbls of 15% HCl; 10,078# of 100 mesh; 103,153# of 40/70 sand; 70Q Foam (2,619 bbls of Slickwater and 2.53 MMSCF N2)
5324'-5388' Frac with 48 bbls of 15% HCl; 10,668# of 100 mesh sand; 79,874# of 40/70 sand; 70Q Foam (2,344 bbls of slickwater and 2.34 MMSCF N2)
5580'-5730' Frac with 48 bbls of 15% HCl; 10,000# of 100 mesh sand; 82,440# of 40/70 sand; 8,187 bbls of slickwater
**5874'-5996' Frac with 48 bbls of 15% HCl; 10,657# of 100 mesh sand; 39,813# of 40/70 sand; 4,337 bbls of slickwater, actual Gallup perms 5108'-5982'

#28
LOGOS will file a subsequent production allocation sundry upon recovery of frac load. These initial tests are not representative of true production potential due to a large volume of frac fluid.

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 05/22/2013

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.