

MAY 14 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

AMENDED

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

Farmington Field Office
Bureau of Land Management

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. Zones Hydraulic Fracturing

Other: _____

2. Name of Operator
LOGOS Operating, LLC

3. Address
2010 Afton Place, Farmington, NM 87401

3a. Phone No. (Include area code)
505-324-4145

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
2151' FSL 566' FWL, NW/SW, L Sec 14, T23N, R8W
At surface
At top prod. interval reported below
At total depth 376' FSL 279' FWL, SW/SW, M Sec 15, T23N, R8W

5. Lease Serial No.
NMNM18463

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.
Athena 2308 14L 2H

9. API Well No.
30-045-35633

10. Field and Pool or Exploratory Basin Mancos

11. Sec., T., R., M., on Block and Survey or Area Sec 14, T23N, R8W

12. County or Parish
San Juan

13. State
NM

14. Date Spudded
2/10/2018

15. Date T.D. Reached
2/28/2018

16. Date Completed 04/05/2018
 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
6878' GL

18. Total Depth: MD 10869'
TVD 5105'

19. Plug Back T.D.: MD 10836'
TVD 5103'

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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	9-5/8" J-55	36#	0'	326 GL	n/a	101 sks	29 bbls	0' CIR	10 bbls
8-3/4"	7" J55 L80 P110	23#, 26#	0'	5923'	n/a	739 sks	236 bbls	0' CIR	50 bbls
6-1/8"	4-1/2" P110	11.6#	5764	10865'	n/a	509 sks	123 bbls	5764' CIR	20 bbls
6-1/8"	4-1/2" p-110	11.6#	4478	5764	n/a	0		no cmt	0

24. Tubing Record

Size	Depth Set (MD)	Packer Dept (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-3/8"	6145'		2-7/8"	4409'	5712'			

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Mancos	4375' VD	5192' VD	6571'-10813' MD	0.38" / 3spf	800	open
B)			6179'-6540' MD	0.38" / 2spf	48	open
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Post hydraulic fracturing chemical disclosures on FracFocus.org

Depth Interval	Amount, Type of Material and Date of Chemical Disclosure upload on FracFocus.org
6179-10813' MD	Frac w/6,549,921# 20/40 Brady Sand, 1,371,792bbls 70% N2 Foam, 46.12 mm scf N2

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
4/23/18	4/24/18	12	➔	244	5064	224			Gas Lift
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
44/64	SI 764	550	➔	438	5064	424		Flowing	

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		➔						

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

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.

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
Ojo Alamo	896				
Kirtland	1053				
Fruitland	1154				
Pictured Cliffs	1502				
Lewis	1638				
Cliff House	3009				
Menefee	3102				
Point Lookout	4152				
Mancos	4375				
Gallup	5193				

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) Marie E Florez Title Regulatory Specialist
 Signature  Date 04/27/2018

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.

RECEIVED

NMOCD

APR 27 2018

Form 3160-4
(June 2015)

MAY 14 2018

UNITED STATES

AMENDED

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

DISTRICT OFFICE

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Farmington Field Office
Bureau of Land Management

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMMN18463

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.
Athena 2308 14L 2H

9. API Well No.
30-045-35633

10. Field and Pool or Exploratory
Basin Mancos

11. Sec., T., R., M., on Block and
Survey or Area Sec 14, T23N, R8W

12. County or Parish
San Juan

13. State
NM

17. Elevations (DF, RKB, RT, GL)*
6878' GL

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

2. Name of Operator
LOGOS Operating, LLC

3. Address
2010 Afton Place, Farmington, NM 87401

3a. Phone No. (Include area code)
505-324-4145

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface 2151' FSL 566' FWL, NW/SW, L Sec 14, T23N, R8W
At top prod. interval reported below
At total depth 376' FSL 279' FWL, SW/SW, M Sec 15, T23N, R8W

14. Date Spudded
2/10/2018

15. Date T.D. Reached
2/28/2018

16. Date Completed 04/05/2018
 D & A Ready to Prod.

18. Total Depth: MD 10869'
TVD 5105'

19. Plug Back T.D.: MD 10836'
TVD 5103'

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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	9-5/8" J-55	36#	0'	326 GL	n/a	101 sks	29 bbls	0' CIR	10 bbls
8-3/4"	7" J55 L80 P110	23#, 26#	0'	5923'	n/a	739 sks	236 bbls	0' CIR	50 bbls
6-1/8"	4-1/2" P110	11.6#	4478	10865'	n/a	509 sks	123 bbls	5764' CIR	20 bbls

24. Tubing Record

Size	Depth Set (MD)	Packer Dept (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-3/8"	6145'		2-7/8"	4409'	5712'			

25. Producing Intervals

Formation	Top	Bottom
A) Mancos	4375' VD	5192' VD
B)		
C)		
D)		

26. Perforation Record

Perforated Interval	Size	No. Holes	Perf. Status
6571'-10813' MD	0.38" / 3spf	800	open
6179'-6540' MD	0.38" / 2spf	48	open

27. Acid, Fracture, Treatment, Cement Squeeze, Post hydraulic fracturing chemical disclosures on FracFocus.org

Depth Interval	Amount, Type of Material and Date of Chemical Disclosure upload on FracFocus.org
6179-10813' MD	Frac w/6,549,921# 20/40 Brady Sand, 1,371,792bbls 70% N2 Foam, 46.12 mmcsf N2

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
4/23/18	4/24/18	12	➔	244	5064	224			Gas Lift
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
44/64	764	550	➔	438	5064	424		Flowing	

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	
			➔						

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

ACCEPTED FOR RECORD

MAY 09 2018

FARMINGTON FIELD OFFICE
By: _____

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.)

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	896				
Kirtland	1053				
Fruitland	1154				
Pictured Cliffs	1502				
Lewis	1638				
Cliff House	3009				
Menefee	3102				
Point Lookout	4152				
Mancos	4375				
Gallup	5193				

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) Marie E Florez Title Regulatory Specialist
 Signature  Date 04/27/2018

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.