

OIL CONS. DIV DIST. 3

OCT 25 2017

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

AMENDED

OCT 16 2017

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Farmington Field Office
Bureau of Land Management

3. Lease Serial No.

NMNM18463

- 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, LLC3. Address
2010 Afton Place, Farmington, NM 874013a. Phone No. (Include area code)
505-324-41454. Location of Well (Report location clearly and in accordance with Federal requirements)*
1476' FSL 210' FWL, NW/SW, L Sec 9, T23N, R8W
At surface

At top prod. interval reported below

At total depth 2380' FNL 1310' FWL, NW/SW, E Sec 16, T23N, R8W

14. Date Spudded
1/21/201715. Date T.D. Reached
5/6/201716. Date Completed 09/12/2017
☐ D & A ☒ Ready to Prod.17. Elevations (DF, RKB, RT, GL)*
6916' GL18. Total Depth: MD 10592'
TVD 5275'19. Plug Back T.D.: MD 10532'
TVD 5186'20. Depth Bridge Plug Set: MD
TVD21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
GR/CCL22. 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'	329 GL	N/A	190 sks	40 bbls	0' CIR	6 bbls
8-3/4"	7" J-55	23#	0'	5840'	5100', 2440'	850 sks	267 bbls	0' CIR	50 bbls
6-1/8"	4-1/2" P110	11.6#	5665'	10582'	N/A	450 sks	109 bbls	5665' 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"	6269'	5614'	2-7/8"	5614'	5607'			

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Gallup	4852' VD	5275' VD	5872'-10522' MD	0.40" / 3sp	768	open
B)			5275'-5186' VD			
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
5872'-10522' MD	Frac w/5799050# 20/40 Brady Sand, 31101bbls 70% N2 Foam, 42.17 mmscf 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
9/15/17	9/27/17	24	→	1038	461	304			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	
n/a	175 flwg	670	→	1038	461	304		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)

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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	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.)

Sold

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	0850 1055				
Fruitland Pictured Cliffs	1186 1540				
Lewis Cliff House	1650 3076				
Menefee Point Lookout	3101 4001				
Mancos Gallup	4177 4852				

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) Tamra SessionsTitle Regulatory SpecialistSignature Date 10/04/2017

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)

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OCT 04 2017

Form 3160-4
(June 2015)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

Farmington Field Office

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Form Serial No.
NMNM184631a. 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: _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
CA - NMNM1368688. Lease Name and Well No.
Heros 2308 09L Com 1H9. API Well No.
30-045-3568810. Field and Pool or Exploratory
Nageezi Gallup11. Sec., T., R., M., on Block and
Survey or Area Sec 9, T23N, R8W12. County or Parish
San Juan13. State
NM2. Name of Operator
LOGOS Operating, LLC3. Address
2010 Afton Place, Farmington, NM 874013a. Phone No. (Include area code)
505-324-4145

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

1476' FSL 210' FWL, NW/SW, L Sec 9, T23N, R8W

At surface

At top prod. interval reported below

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GR/CCL22. 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)

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5872'-10522' MD	Frac w/5799050# 20/40 Brady Sand, 31101bbls 70% N2 Foam, 42.17 mmscf N2

ACCEPTED FOR RECORD

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
9/15/17	9/27/17	24	→	1038	461	304			Gas Lift
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
n/a	175 flwg	670	→	1038	461	304		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	
			→						

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

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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	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.)

Sold

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					Meas. Depth
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Kirtland	1055				
Fruitland	1186				
Pictured Cliffs	1540				
Lewis	1650				
Cliff House	3076				
Menefee	3101				
Point Lookout	4001				
Mancos	4177				
Gallup	4852				

32. Additional remarks (include plugging procedure).

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

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 ☐ Geologic Report
 ☐ DST Report
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Name (please print) Tamra SessionsTitle Regulatory SpecialistSignature Tamra SessionsDate 10/04/2017

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(Continued on page 3)

(Form 3160-4, page 2)