

OIL CONS. DIV DIST. 3

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

Lease Serial No.
NMNM18463

1a. Type of Well Oil Well Gas Well Dry Other

b. Type of Competition 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)*
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

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
CA - NMNM136868

8. Lease Name and Well No.
Heros 2308 09L Com 1H

9. API Well No.
30-045-35688

10. Field and Pool or Exploratory
Nageezi Gallup

11. Sec., T., R., M., on Block and Survey or Area
Sec 9, T23N, R8W

12. County or Parish
San Juan

13. State
NM

14. Date Spudded
1/21/2017

15. Date T.D. Reached
5/6/2017

16. Date Completed 09/12/2017
 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
6916' GL

18. Total Depth: MD 10592'
TVD 5275'

19. Plug Back T.D.: MD 10532'
TVD 5186'

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'	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" / 3spf	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)

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

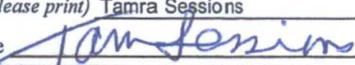
Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
Ojo Alamo Kirtland	0850 1055				
Fruitland Pictured Cliffs	1186 1540				
Lewis Cliff House	1650 3076				
Menefee Point Lookout	3101 4001				
Mancos Gallup	4177 4852				

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 Sessions Title Regulatory Specialist
 Signature  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.

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OCT 10 2017

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Form 3160-4
(June 2015)

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BUREAU OF LAND MANAGEMENT

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ACCEPTED FOR RECORD

OCT 05 2017

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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	
n/a	175 flwg	670	→	1038	461	304		Flowing	

FARMINGTON FIELD OFFICE
BY: [Signature]

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.)

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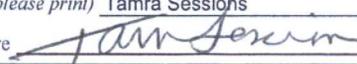
Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
Ojo Alamo	0850				
Kirtland	1055				
Fruitland	1186				
Pictured Cliffs	1540				
Lewis	1650				
Cliff House	3076				
Menefee	3101				
Point Lookout	4001				
Mancos	4177				
Gallup	4852				

32. Additional remarks (include plugging procedure).

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