

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

SEP 06 2018

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Farmington Field Office  
Bureau of Land Management

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)  
505-787-2218

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
At surface 1476' FSL 330' FWL, NW/SW, L Sec 09, T23N, R8W  
At top prod. interval reported below  
At total depth 846' FNL 259' FEL, NE/NE, A Sec 16, T23N, R8W

5. Lease Serial No.  
NMNM18463

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.  
NMNM 138586

8. Lease Name and Well No.  
Heros 2308 09L Com 5H

9. API Well No.  
30-045-35877

10. Field and Pool or Exploratory  
Nageezi Gallup

11. Sec., T., R., M., on Block and Survey or Area  
Sec 09, T23N, R8W

12. County or Parish  
San Juan

13. State  
NM

14. Date Spudded  
6/6/2018

15. Date T.D. Reached  
6/12/2018

16. Date Completed 07/31/2018  
 D & A  Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
6913' GL

18. Total Depth: MD 10475'  
TVD 5257'

19. Plug Back T.D.: MD 10423'  
TVD 5258'

20. Depth Bridge Plug Set: MD  
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

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'	339' GL	n/a	101 sks	29 bbls	0' CIR	10 bbls
8-3/4"	7" P110, L80, J55	26#, 26#, 23#	0'	5260'	n/a	735 sks	235 bbls	0' CIR	71 bbls
6-1/8"	4-1/2" P110	11.6#	5111	10471'	n/a	710 sks	172 bbls	5111' CIR	21 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"	6081'	6047'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Gallup	4921' VD	5318' VD	9994'-10379' MD	0.38" / 3spf	80	open
B)			6375'-9963' MD	0.38" / 2spf	456	open
C)						
D)						

ACCEPTED FOR RECORD

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

Depth Interval: 6375'-10379' MD

Amount, Type of Material and Date of Chemical Disclosure upload on FracFocus.org: Frac w/6,062,600# 20/40 Arizona Sand, 1,239,533gals 70% Linear Gel N2 Foam, 42,840,615sf of N2

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FARMINGTON FIELD OFFICE

By: \_\_\_\_\_

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
8/5/18	8/5/18	12	➔	46	264	125			Flowing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
38/64	220	670	➔	75	378	347		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	
			➔						

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

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DISTRICT III

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	945				
Kirtland	1021				
Fruitland	1201				
Pictured Cliffs	1536				
Chacra	1951				
Cliff House	3035				
Menefee	3096				
Point Lookout	3977				
Mancos	4150				
Gallup	4921				
Lower Gallup	5318				

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 09/06/2018

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.