

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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SEP 05 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

5. 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: _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
NMNM 1385868. Lease Name and Well No.
Heros 2308 09L Com 2H9. API Well No.
30-045-3568710. Field and Pool or Exploratory
Nageezi Gallup11. Sec., T., R., M., on Block and
Survey or Area Sec 09, T23N, R8W

12. County or Parish

San Juan

13. State

NM

2. Name of Operator
LOGOS Operating, LLC3. Address
2010 Afton Place, Farmington, NM 874013a. 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 240' FWL, NW/SW, L Sec 09, T23N, R8W

At top prod. interval reported below

At total depth 1638' FSL 30' FEL, NE/SE, I Sec 09, T23N, R8W

14. Date Spudded
4/25/201815. Date T.D. Reached
6/05/201816. Date Completed 07/29/2018
☐ D & A ☒ Ready to Prod.17. Elevations (DF, RKB, RT, GL)*
6913' GL18. Total Depth: MD 10371'
TVD 5290'19. Plug Back T.D.: MD 10324'
TVD 5291'20. 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'	322 GL	n/a	101 sks	29 bbls	0' CIR	8 bbls
8-3/4"	7" J-55, P110	23#, 26#	0'	5535'	n/a	825 sks	254 bbls	0' CIR	40 bbls
6-1/8"	4-1/2" P110	11.6#	5401'	10368'	n/a	415 sks	114 bbls	5401' CIR	26 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"	5849'	5372'	2-7/8"	5359'				

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Gallup	4907' VD	5304' VD	9908'-10285' MD	0.38" / 3spf	80	open
B)			6177'-9878' MD	0.38" / 2spf	480	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
6177'-10285' MD	Frac w/5,984,784# 20/40 Arizona Sand, 1,227,728gals 70% Linear Gel N2 Foam, 43,095,203scf N2

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
8/4/18	8/5/18	12	➡	219	322	79			Flowing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
25/64	300	690	➡	286	618	173		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	
			➡						

NMOCD

SEP 17 2018

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

CONFIDENTIAL

NMOCD

DISTRICT III

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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.)

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	947				
Kirtland	1022				
Fruitland	1203				
Pictured Cliffs	1586				
Chacra	1956				
Cliff House	3047				
Menefee	3095				
Point Lookout	3975				
Mancos	4168				
Gallup	4907				
Lower Gallup	5304				

32. Additional remarks (include plugging procedure).

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

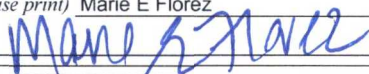
- ☐ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
- ☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other:

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 09/05/2018

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.