

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
AUG 10 2018

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

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

5. Lease Serial No. **NMNM18463**  
6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator **LOGOS Operating, LLC**

3a. Address **2010 Afton Place  
Farmington, NM 87401**

3b. Phone No. (include area code)  
**(505) 787-2218**

7. If Unit of CA/Agreement, Name and/or No.  
**NMNM 138586**

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

9. API Well No. **30-045-35688**

10. Field and Pool or Exploratory Area  
**Nageezi Gallup**

11. Country or Parish, State  
**San Juan County, NM**

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<b>Emergency Flare</b>
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

**NMOCD**

**AUG 22 2018**

**DISTRICT III**

LOGOS notified & received verbal approval from Jack Savage (BLM), requesting an emergency flare for 30 days on Heros 2308 09L Com 1H starting 8/9/2018, due to the Frac activity on Heros 2308 09L Com 2H, 3H, 4H & 5H that has caused a high nitrogen level in WFC pipeline.

**SEE ATTACHED  
FOR CONDITIONS  
OF APPROVAL**

**BLM'S APPROVAL OR ACCEPTANCE OF THIS  
ACTION DOES NOT RELIEVE THE LESSEE AND  
OPERATOR FROM OBTAINING ANY OTHER  
AUTHORIZATION REQUIRED FOR OPERATIONS  
ON FEDERAL AND INDIAN LANDS**

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)  
**Marie E. Florez**

Signature *Marie E. Florez*

Title **Regulatory Specialist**

Date **08/10/2018**

**THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by *William Tambekou*

Title *Petroleum Engineer* Date *8/13/2018*

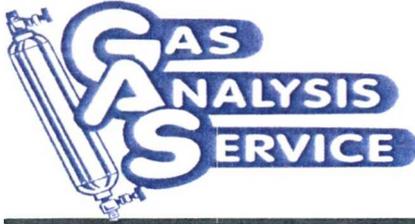
Office *FFO*

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

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.

(Instructions on page 2)

**NMOCD**



2030 Afton Place  
 Farmington, NM 87401  
 (505) 325-6622

UNCORRECTED  
 AUG 22 2018  
 DISTRICT III

Analysis No: N2180050  
 Cust No: 46600

**Well/Lease Information**

**LOGOS OPERATING**

Well Name: HEROS 1H  
 County/State: NEW MEXICO  
 Location:  
 Formation:  
 Meter Number:  
 Foreman: BRYAN LOVATO

Source: Meter Run  
 Well Flowing: No  
 Pressure: 329  
 Flow Temp: 89 F  
 Ambient Temp: 68 F  
 Sample Method: Purge & Fill  
 Date Sampled: 8/8/2018  
 Time Sampled: 5:00 AM  
 Sampled By:(Co.) CHENAULT  
 Sampled By: JERONIMO C.

GPA Standard: GPA 2261-14  
 GC: SRI Instruments 8610 Last Cal/Verify: 8/8/2018

Remarks:

**Analysis**

Component:	Mole%:	Un-normalized Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	72.053	71.173	7.9334	0.00	0.6969
Methane	18.892	18.662	3.2053	190.81	0.1046
CO2, C2-C6+	9.055	8.945	2.5681	209.71	0.1325
Total	100.000	98.780	13.7069	400.52	0.9341

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\*@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	0.9989	CYLINDER #:	4038
BTU/CU.FT IDEAL:	401.4	CYLINDER PRESSURE:	87
BTU/CU.FT (DRY REAL) CORRECTED FOR (1/Z):	401.9	ANALYSIS DATE:	8/8/2018
BTU/CU.FT (WET REAL) CORRECTED FOR (1/Z):	394.9	ANALYZED BY:	Dawn Blassingame
REAL SPECIFIC GRAVITY:	0.9346		

GPM, BTU, and SPG calculations as shown  
 above are based on current GPA factors.