Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

SUBMIT IN TRIPLICATE - Other instructions on page 2

5. Lease Serial No.
NMNM18463

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
NMNM138586

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
HEROS 23 08 09L COM 1H

2. Name of Operator
LOGOS OPERATING LLC
Contact: MARIE E FLOREZ
E-Mail: mflorez@logosresourcesllc.com

9. API Well No.
30-045-35688-00-S1

3a. Address
2010 AFTON PLACE
FARMINGTON, NM 87401

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

10. Field and Pool or Exploratory Area
NAGEEZI GALLUP

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 9 T23N R8W NWSW 1476FSL 210FWL
36.238493 N Lat, 107.694942 W Lon

11. County 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			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Venting and/or Flaring
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ 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.

LOGOS flared the following well due to the frac activity on Heros 2308 09L Com 2H, 3H, 4H and 5H.
Gas sample attached.

Flared: 8/9/2018 - 8/16/2019
Volume: 11,094

NMOCD

DEC 04 2019

DISTRICT III

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #494186 verified by the BLM Well Information System
For LOGOS OPERATING LLC, sent to the Farmington
Committed to AFMSS for processing by JOHN HOFFMAN on 12/03/2019 (18WMT1068S)

Name *(Printed/Typed)* MARIE E FLOREZ — Title REGULATORY SPECIALIST

Signature (Electronic Submission) — Date 12/02/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ACCEPTED — JOHN HOFFMAN
Title PETROLEUM ENGINEER — Date 12/03/2019

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.

Office Farmington

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)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

NMOCD

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GAS ANALYSIS SERVICE

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

Analysis No: N2180044
Cust No: 46600

Well/Lease Information

LOGOS OPERATING

Well Name:	HEROS #1H	Source:	Meter Run
County/State:	NEW MEXICO	Well Flowing:	Yes
Location:		Pressure:	325
Formation:		Flow Temp:	83 F
Meter Number:		Ambient Temp:	65 F
Foreman:	BRYAN LOVATO	Sample Method:	Purge & Fill
		Date Sampled:	8/7/2018
		Time Sampled:	5:30 AM
GPA Standard:	GPA 2261-14	Sampled By:(Co.)	LOGOS
GC: SRI Instruments 8610 Last Cal/Verify:	8/7/2018	Sampled By:	JERONIMO C.

Remarks:

Analysis

Component:	Mole%:	Un-normalized Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	72.230	70.444	7.9527	0.00	0.6986
Methane	19.188	18.714	3.2554	193.80	0.1063
CO2, C2-C6+	8.582	8.370	2.4339	198.76	0.1256
Total	100.000	97.527	13.6420	392.56	0.9305

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	0.9990	CYLINDER #:	4010
BTU/CU.FT IDEAL:	393.5	CYLINDER PRESSURE:	36
BTU/CU.FT (DRY REAL) CORRECTED FOR (1/Z):	393.9	ANALYSIS DATE:	8/7/2018
BTU/CU.FT (WET REAL) CORRECTED FOR (1/Z):	387.0	ANALYZED BY:	Dawn Blassingame
REAL SPECIFIC GRAVITY:	0.9310		

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

GAS ANALYSIS SERVICE

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

Analysis No: N2180147
Cust No: 46600

Well/Lease Information

LOGOS OPERATING

Well Name:	HEROS 2308 09L COM 14	Source:	Meter Run
County/State:	NEW MEXICO	Well Flowing:	Yes
Location:		Pressure:	114
Formation:		Flow Temp:	70 F
Meter Number:		Ambient Temp:	29 F
Foreman:	BRYAN LOVATO	Sample Method:	Purge & Fill
		Date Sampled:	8/27/2018
		Time Sampled:	6:00 AM
GPA Standard:	GPA 2261-14	Sampled By:(Co.)	
GC: SRI Instruments 8610 Last Cal/Verify:	8/27/2018	Sampled By:	

Remarks:

Analysis

Component:	Mole%:	Un-normalized Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	24.263	23.700	2.6796	0.00	0.2347
Methane	45.241	44.192	7.6992	456.93	0.2506
CO2, C2-C6+	30.496	29.790	8.6755	706.28	0.4463
Total	100.000	97.682	19.0544	1163.21	0.9315

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	0.9959	CYLINDER #:	6017
BTU/CU.FT IDEAL:	1165.9	CYLINDER PRESSURE:	80
BTU/CU.FT (DRY REAL) CORRECTED FOR (1/Z):	1170.7	ANALYSIS DATE:	8/27/2018
BTU/CU.FT (WET REAL) CORRECTED FOR (1/Z):	1150.2	ANALYZED BY:	Dawn Blassingame
REAL SPECIFIC GRAVITY:	0.9350		

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