

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

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

5. Lease Serial No.
NMNM18463

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
ATHENA 2308 14L 1H

9. API Well No.
30-045-35632-00-S1

10. Field and Pool or Exploratory Area
BASIN MANCOS

11. County or Parish, State
SAN JUAN COUNTY, NM

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		2. Name of Operator LOGOS OPERATING LLC	Contact: MARIE E FLOREZ E-Mail: mflorez@logosresourcesllc.com
3a. Address 2010 AFTON PLACE FARMINGTON, NM 87401		3b. Phone No. (include area code) Ph: 505-787-2218	
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 14 T23N R8W NWSW 2171FSL 0571FWL			

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input 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 checked="" 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	Venting and/or Flaring
	<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 recompleting 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 DJR Operating LLC, frac activity on Bettonie Tsosie Wash Unit 108H (30-045-35515) and Bettonie Tsosie Wash Unit 728H (30-045-35514). Gas sample attached.

Flared: 8/14/2019 - 8/29/2019
Volume: 3726

NMOC

DEC 04 2019

DISTRICT III

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #494296 verified by the BLM Well Information System
For LOGOS OPERATING LLC, sent to the Farmington
Committed to AFMSS for processing by JOE KILLINS on 12/03/2019 (20JK0059SE)

Name (Printed/Typed) MARIE E FLOREZ

Title REGULATORY SPECIALIST

Signature (Electronic Submission)

Date 12/03/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ACCEPTED	JOE KILLINS Title 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 **

NMOC

3



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

Analysis No: LG190303
Cust No: 46600-11590

Well/Lease Information

Customer Name: LOGOS OPERATING LLC
Well Name: ATHENA 2308 14L 1H,2H,3H; SALES
County/State:
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.:

Source: SALES METER
Well Flowing: Y
Pressure: 94 PSIG
Flow Temp: 60 DEG. F
Ambient Temp: 71 DEG. F
Flow Rate: 900 MCF/D
Sample Method:
Sample Date: 08/25/2019
Sample Time: 11.00 PM
Sampled By: TOBY WRIGHT
Sampled by (CO): LOGOS

Heat Trace:
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	37.6893	37.5033	4.1570	0.00	0.3645
CO2	0.3672	0.3654	0.0630	0.00	0.0056
Methane	42.4602	42.2508	7.2170	428.85	0.2352
Ethane	7.5836	7.5462	2.0330	134.21	0.0787
Propane	6.8276	6.7939	1.8860	171.79	0.1040
Iso-Butane	0.8518	0.8476	0.2790	27.70	0.0171
N-Butane	2.3298	2.3183	0.7360	76.01	0.0468
I-Pentane	0.5584	0.5556	0.2050	22.34	0.0139
N-Pentane	0.5501	0.5474	0.2000	22.05	0.0137
Hexane Plus	0.7820	0.7781	0.3500	41.22	0.0259
Total	100.0000	99.5066	17.1260	924.16	0.9053

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0028
BTU/CU.FT IDEAL: 926.3
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 928.9
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 912.7
DRY BTU @ 15.025: 947.5
REAL SPECIFIC GRAVITY: 0.9075

CYLINDER #: 4117
CYLINDER PRESSURE: 87 PSIG
ANALYSIS DATE: 08/26/2019
ANALYSIS TIME: 09:51:12 AM
ANALYSIS RUN BY: SHYANN ELLEDGE

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

GPA Standard: GPA-2261

GC: Danalyzer Model 500

Last Cal/Verify: 08/26/2019

GC Method: C6+ Gas



LOGOS OPERATING LLC
WELL ANALYSIS COMPARISON

Lease: ATHENA 2308 14L 1H,2H,3H; SALES SALES METER 08/26/2019
 Stn. No.: 46600-11590
 Mtr. No.:

Smpl Date:	08/25/2019	08/25/2019	08/24/2019	08/23/2019	08/22/2019	08/21/2019	08/20/2019
Test Date:	08/26/2019	08/25/2019	08/24/2019	08/23/2019	08/22/2019	08/21/2019	08/20/2019
Run No:	LG190303	LG190302	LG190297	LG190288	LG190286	LG190280	LG190261
Nitrogen:	37.6893	40.5292	43.3477	48.8440	58.9359	51.5151	47.8752
CO2:	0.3672	0.3537	0.3220	0.3040	0.2377	0.2846	0.2853
Methane:	42.4602	41.3408	39.0075	35.5602	28.7936	34.3914	37.1391
Ethane:	7.5836	7.1331	6.8431	6.0062	4.7567	5.6373	5.8997
Propane:	6.8276	6.2592	6.0881	5.2845	4.1506	4.8088	5.0557
I-Butane:	0.8518	0.7560	0.7489	0.6657	0.5228	0.5799	0.6185
N-Butane:	2.3298	2.0420	2.0438	1.8028	1.3987	1.5298	1.6517
I-Pentane:	0.5584	0.4950	0.4951	0.4512	0.3281	0.3610	0.4292
N-Pentane:	0.5501	0.4874	0.4881	0.4481	0.3202	0.3533	0.4291
Hexane+:	0.7820	0.6036	0.6157	0.6333	0.5557	0.5388	0.6165
BTU:	928.9	867.8	835.0	751.6	599.7	696.8	750.8
GPM:	17.1260	16.7140	16.5010	15.9420	14.9380	15.5770	15.9210
SPG:	0.9075	0.8982	0.9067	0.9113	0.9199	0.9041	0.9001

08/19/2019

08/19/2019

LG190257

79.5840

0.1263

12.9626

2.3123

2.2966

0.3425

1.0325

0.3158

0.3396

0.6878

338.1

13.2190

0.9697