



# Certificate of Analysis

Number: 6030-22060248-003A

**Artesia Laboratory**  
 200 E Main St.  
 Artesia, NM 88210  
 Phone 575-746-3481

Alex Batista  
 Taprock  
 602 Park Point Drive  
 Ste. 200  
 Golden, CO 80401

June 23, 2022

Station Name: Apollo D CTB  
 Station Number:  
 Sample Point: Fuel Gas  
 Formation: Spot  
 County: Lea, NM  
 Type of Sample: Spot-Cylinder  
 Heat Trace Used: N/A  
 Sampling Method: Fill and Purge  
 Sampling Company: SPL

Sampled By: Gerardo Rodriguez  
 Sample Of: Gas Spot  
 Sample Date: 06/22/2022 09:35  
 Sample Conditions: 97.5 psig, @ 96 °F Ambient: 81 °F  
 Effective Date: 06/22/2022 09:35  
 Method: GPA-2261M  
 Cylinder No: 5030-02169  
 Instrument: 70104251 (Inficon GC-MicroFusion)  
 Last Inst. Cal.: 06/20/2022 0:00 AM  
 Analyzed: 06/23/2022 10:21:17 by ERG

## Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia
Hydrogen Sulfide	NIL	0.00005	NIL	
Nitrogen	1.284	1.28387	1.610	
Carbon Dioxide	1.159	1.15858	2.283	
Methane	74.842	74.84006	53.754	
Ethane	11.837	11.83706	15.936	3.178
Propane	6.064	6.06338	11.971	1.677
Iso-Butane	0.886	0.88638	2.307	0.291
n-Butane	2.100	2.09966	5.464	0.664
Iso-Pentane	0.508	0.50829	1.642	0.187
n-Pentane	0.590	0.58989	1.906	0.215
Hexanes	0.379	0.37889	1.462	0.156
Heptanes	0.245	0.24519	1.100	0.114
Octanes	0.094	0.09440	0.483	0.049
Nonanes Plus	0.014	0.01430	0.082	0.008
	<u>100.002</u>	<u>100.00000</u>	<u>100.000</u>	<u>6.539</u>

Calculated Physical Properties	Total	C9+
Calculated Molecular Weight	22.33	128.26
Compressibility Factor	0.9960	
Relative Density Real Gas	0.7740	4.4283

**GPA 2172 Calculation:**

**Calculated Gross BTU per ft<sup>3</sup> @ 14.73 psia & 60°F**

Real Gas Dry BTU	1305.9	7012.5
Water Sat. Gas Base BTU	1283.7	6890.4
Ideal, Gross HV - Dry at 14.73 psia	1300.6	7012.5
Ideal, Gross HV - Wet	1278.0	6890.4

**Comments:** H2S Field Content 0.5 ppm

Hydrocarbon Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.

FLARING SUMMARY

Battery	Date	Total Flare Vol (mcf)	Hrs Flared	Start	End

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

DEFINITIONS

Action 514223

**DEFINITIONS**

Operator: Jonah Energy LLC 370 17th Street Denver, CO 80202	OGRID: 333010
	Action Number: 514223
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

**DEFINITIONS**

For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application:

- this application's operator, hereinafter "this operator";
- venting and/or flaring, hereinafter "vent or flare";
- any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";
- the statements in (and/or attached to) this, hereinafter "the statements in this";
- and the past tense will be used in lieu of mixed past/present tense questions and statements.

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QUESTIONS

Action 514223

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**QUESTIONS**

<b>Prerequisites</b>	
<i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i>	
Incident ID (n#)	Unavailable.
Incident Name	Unavailable.
Incident Type	Flare
Incident Status	Unavailable.
Incident Facility	[fAPP2134729508] APOLLO D CTB
<i>Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section) that are assigned to your current operator can be amended with this C-129A application.</i>	

<b>Determination of Reporting Requirements</b>	
<i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>	
Was this vent or flare caused by an emergency or malfunction	Yes
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	No
Is this considered a submission for a vent or flare event	Yes, major venting and/or flaring of natural gas.
<i>An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during venting and/or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.</i>	
Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this vent or flare result in the release of ANY liquids (not fully and/or completely flared) that reached (or has a chance of reaching) the ground, a surface, a watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water	No
Was the vent or flare within an incorporated municipal boundary or within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

<b>Equipment Involved</b>	
Primary Equipment Involved	Not answered.
Additional details for Equipment Involved. Please specify	Not answered.

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b>	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	75
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	1
Carbon Dioxide (CO2) percentage, if greater than one percent	1
Oxygen (O2) percentage, if greater than one percent	0
<i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>	
Methane (CH4) percentage quality requirement	Not answered.
Nitrogen (N2) percentage quality requirement	Not answered.
Hydrogen Sulfide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (CO2) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

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Action 514223

**QUESTIONS (continued)**

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**QUESTIONS**

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	09/29/2025
Time vent or flare was discovered or commenced	12:01 AM
Time vent or flare was terminated	11:59 PM
Cumulative hours during this event	1

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	<i>Not answered.</i>
Natural Gas Flared (Mcf) Details	<i>Not answered.</i>
Other Released Details	Cause: High Line Pressure   Pipeline (Any)   Natural Gas Flared   Released: 2,004 Mcf   Recovered: 0 Mcf   Lost: 2,004 Mcf.
Additional details for Measured or Estimated Volume(s). Please specify	<i>Not answered.</i>
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>Yes, according to supplied volumes this appears to be a "gas only" report.</b>

Venting or Flaring Resulting from Downstream Activity	
Was this vent or flare a result of downstream activity	Yes
Was notification of downstream activity received by this operator	No
Downstream OGRID that should have notified this operator	[371960] LUCID ENERGY DELAWARE, LLC
Date notified of downstream activity requiring this vent or flare	
Time notified of downstream activity requiring this vent or flare	<i>Not answered.</i>

Steps and Actions to Prevent Waste	
For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control	True
Please explain reason for why this event was beyond this operator's control	The location experienced a malfunction that was not anticipated and the flaring can be attributed to high line pressure from our midstream provider. Due to this the inability for midstream to take gas, flaring was required
Steps taken to limit the duration and magnitude of vent or flare	Standard PM. Worked with vendor to coordinate service time and minimize downtime.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Standard PM. No way to avoid periodic downtime for maintenance/repairs to address unforeseen issues.



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ACKNOWLEDGMENTS

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**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	I acknowledge that with this application I will be amending an existing incident file (assigned to this operator) for a vent or flare event, pursuant to 19.15.27 and 19.15.28 NMAC.
<input checked="" type="checkbox"/>	I acknowledge that amending an incident file does not replace original submitted application(s) or information and understand that any C-129 forms submitted to the OCD will be logged and stored as public record.
<input checked="" type="checkbox"/>	I hereby certify the statements in this amending report are true and correct to the best of my knowledge and acknowledge that any false statement may be subject to civil and criminal penalties under the Oil and Gas Act.
<input checked="" type="checkbox"/>	I acknowledge that the acceptance of any C-129 forms by the OCD does not relieve this operator of liability should their operations have failed to adequately investigate, report, and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment.
<input checked="" type="checkbox"/>	I acknowledge that OCD acceptance of any C-129 forms does not relieve this operator of responsibility for compliance with any other applicable federal, state, or local laws and/or regulations.

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CONDITIONS

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**CONDITIONS**

Created By	Condition	Condition Date
mlaruecdh	If the information provided in this report requires further amendment(s), submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	10/10/2025