



# Certificate of Analysis

Number: 6030-21080194-010A

**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

Aug. 25, 2021

Station Name: Yada Fed Com 135  
 Station Number: 7060303  
 Sample Point: Meter run  
 Formation: Spot  
 County: Lea  
 Type of Sample: Spot-Cylinder  
 Heat Trace Used: N/A  
 Sampling Method: Fill and Purge  
 Sampling Company: SPL

Sampled By: James Hill  
 Sample Of: Gas Spot  
 Sample Date: 08/17/2021 10:45  
 Sample Conditions: 139.8 psig, @ 128.6 °F Ambient: 90 °F  
 Effective Date: 08/17/2021 10:45  
 Method: GPA-2261M  
 Cylinder No: 5030-02476  
 Instrument: 70104124 (Inficon GC-MicroFusion)  
 Last Inst. Cal.: 07/08/2021 0:00 AM  
 Analyzed: 08/24/2021 09:52:07 by KNF

## Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia
Hydrogen Sulfide	NIL	0.20000	0.290	
Nitrogen	1.282	1.29614	1.546	
Carbon Dioxide	1.424	1.43976	2.698	
Methane	71.822	72.64287	49.632	
Ethane	11.270	11.39915	14.597	3.062
Propane	6.652	6.72799	12.635	1.862
Iso-Butane	1.011	1.02245	2.531	0.336
n-Butane	2.447	2.47455	6.125	0.783
Iso-Pentane	0.763	0.77151	2.371	0.283
n-Pentane	0.705	0.71326	2.192	0.260
Hexanes	0.612	0.61889	2.271	0.256
Heptanes	0.468	0.47294	2.018	0.219
Octanes	0.182	0.18448	0.897	0.095
Nonanes Plus	0.036	0.03601	0.197	0.020
	98.674	100.00000	100.000	7.176

Calculated Physical Properties	Total	C9+
Calculated Molecular Weight	23.48	128.26
Compressibility Factor	0.9955	
Relative Density Real Gas	0.8141	4.4283

**GPA 2172 Calculation:**

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

Real Gas Dry BTU	1358.2	7012.5
Water Sat. Gas Base BTU	1335.1	6890.4
Ideal, Gross HV - Dry at 14.73 psia	1352.0	7012.5
Ideal, Gross HV - Wet	1328.5	6890.4

**Comments:** H2S Field Content 2000 ppm  
 CO2 1.3%  
 Mcf/dady 2179.5

Data reviewed by: Eric Ramirez, Analyst

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

Flaring Summary

date » (Column Names)

Data table:  
flare\_report\_data (2)  
Colors:  
All values

battery	
	1/6/2022
Yada CTB A	138.90
Grand total	138.90

Sum(TOTAL FLARE (HP + LP))

battery

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

DEFINITIONS

Action 73441

**DEFINITIONS**

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 73441
	Action Type: [C-129] Venting and/or Flaring (C-129)

**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 73441

**QUESTIONS**

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 73441
	Action Type: [C-129] Venting and/or Flaring (C-129)

**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 Well	Not answered.
Incident Facility	[fAPP2126033248] Yada CTB A

<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	No
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, minor 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	72
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	0
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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QUESTIONS, Page 2

Action 73441

**QUESTIONS (continued)**

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 73441
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	01/06/2022
Time vent or flare was discovered or commenced	06:00 AM
Time vent or flare was terminated	06:00 PM
Cumulative hours during this event	2

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Equipment Failure   Treating Tower   Natural Gas Flared   Released: 139 Mcf   Recovered: 0 Mcf   Lost: 139 Mcf
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Not answered.
Is this a gas only submission (i.e. only significant Mcf values reported)	Yes, according to supplied volumes this appears to be a "gas only" report.

Venting or Flaring Resulting from Downstream Activity	
Was this vent or flare a result of downstream activity	No
Was notification of downstream activity received by this operator	Not answered.
Downstream OGRID that should have notified this operator	Not answered.
Date notified of downstream activity requiring this vent or flare	Not answered.
Time notified of downstream activity requiring this vent or flare	Not answered.

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.	False
Please explain reason for why this event was beyond this operator's control	Not answered.
Steps taken to limit the duration and magnitude of vent or flare	Tap Rock saw a higher than normal flare volume due to continuous issues with the VRU unit on location. The downtime increased low pressure flare. Tap Rock saw flare volumes due to flash gas coming off of the tanks and an excess amount of oxygen at the tank level. Tap Rock is working on the VRU and plans to bring on the wells slowly after the problem is corrected.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Tap Rock saw a higher than normal flare volume due to continuous issues with the VRU unit on location. The downtime increased low pressure flare. Tap Rock saw flare volumes due to flash gas coming off of the tanks and an excess amount of oxygen at the tank level. Tap Rock is working on the VRU and plans to bring on the wells slowly after the problem is corrected.

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ACKNOWLEDGMENTS

Action 73441

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**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be a <b>complete</b> C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to this operator) to track any C-129 forms, pursuant to 19.15.27.7 and 19.15.28.8 NMAC and understand that this submission meets the notification requirements of Paragraph (1) of Subsection G and F respectively.
<input checked="" type="checkbox"/>	I hereby certify the statements in this 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  
 Action 73441

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**CONDITIONS**

Created By	Condition	Condition Date
bramsey	If the information provided in this report requires an amendment, submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	1/19/2022