



Certificate of Analysis

Number: 6030-22060256-001A

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: Mulva B CTB
 Station Number:
 Sample Point: Fuel Gas
 Formation: Spot
 County: Lea
 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 11:40
 Sample Conditions: 119.4 psig, @ 99 °F Ambient: 88 °F
 Effective Date: 06/22/2022 11:40
 Method: GPA-2261M
 Cylinder No: 1111-002501
 Instrument: 70104251 (Inficon GC-MicroFusion)
 Last Inst. Cal.: 06/20/2022 0:00 AM
 Analyzed: 06/23/2022 10:27:48 by ERG

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia
Hydrogen Sulfide	NIL	0.00025	NIL	
Nitrogen	1.802	1.80316	2.312	
Carbon Dioxide	1.002	1.00275	2.020	
Methane	75.104	75.16037	55.186	
Ethane	11.934	11.94308	16.436	3.205
Propane	6.327	6.33216	12.779	1.751
Iso-Butane	0.806	0.80631	2.145	0.265
n-Butane	1.760	1.76102	4.685	0.557
Iso-Pentane	0.381	0.38169	1.260	0.140
n-Pentane	0.355	0.35527	1.173	0.129
Hexanes	0.217	0.21746	0.858	0.090
Heptanes	0.154	0.15372	0.705	0.071
Octanes	0.070	0.06975	0.365	0.036
Nonanes Plus	0.013	0.01301	0.076	0.007
	99.925	100.00000	100.000	6.251

Calculated Physical Properties	Total	C9+
Calculated Molecular Weight	21.85	128.26
Compressibility Factor	0.9962	
Relative Density Real Gas	0.7570	4.4283

GPA 2172 Calculation:

Calculated Gross BTU per ft³ @ 14.73 psia & 60°F

Real Gas Dry BTU	1274.8	7012.5
Water Sat. Gas Base BTU	1253.2	6890.4
Ideal, Gross HV - Dry at 14.73 psia	1270.0	7012.5
Ideal, Gross HV - Wet	1247.9	6890.4

Comments: H2S Field Content 2.5 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

date » (Column Names)

Data table:
flare_report_data (2)

Colors:

All values

battery	1/25/2023
Mulva Man Hands CTB B	385.00
Grand total	385.00

battery

Sum(TOTAL FLARE (HP + LP))

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District III
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District IV
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 Phone:(505) 476-3470 Fax:(505) 476-3462

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

DEFINITIONS

Action 183236

DEFINITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 183236
	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 183236

QUESTIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043 Action Number: 183236 Action Type: [C-129] Venting and/or Flaring (C-129)
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QUESTIONS

Prerequisites

Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.

Incident Well	Unavailable.
Incident Facility	[fAPP2126032081] Man Hands Mulva CTB B

Determination of Reporting Requirements

Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.

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, minor venting and/or flaring of natural gas.

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.

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

Equipment Involved

Primary Equipment Involved	Not answered.
Additional details for Equipment Involved. Please specify	Not answered.

Representative Compositional Analysis of Vented or Flared Natural Gas

Please provide the mole percent for the percentage questions in this group.

Methane (CH4) percentage	75
Nitrogen (N2) percentage, if greater than one percent	2
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

If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.

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 183236

QUESTIONS (continued)

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	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	01/25/2023
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	4

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: High Line Pressure Gas Compressor Station Natural Gas Flared Released: 385 Mcf Recovered: 0 Mcf Lost: 385 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	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	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.	True
Please explain reason for why this event was beyond this operator's control	Tap Rock saw a higher-than-normal flare volume due to high line pressure from our midstream provider. The characteristics of the produced gas are not to the quality of the pipeline.
Steps taken to limit the duration and magnitude of vent or flare	Tap Rock saw a higher-than-normal flare volume due to high line pressure from our midstream provider. The characteristics of the produced gas are not to the quality of the pipeline.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Tap Rock saw a higher-than-normal flare volume due to high line pressure from our midstream provider. The characteristics of the produced gas are not to the quality of the pipeline.

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ACKNOWLEDGMENTS

Action 183236

ACKNOWLEDGMENTS

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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 complete 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 183236

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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.	2/6/2023