Certificate of Analysis

Number: 6030-21060172-003A

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 17, 2021

Station Name:	Cosmo 213H Check	Sampled By:	James Hill
Station Number:	7060074	Sample Of:	Gas Spot
Sample Point:	Meter Run	Sample Date:	06/16/2021 10:38
Formation:	Quarterly	Sample Conditions:	89.7 psig, @ 84.8 °F Ambient: 84 °F
County:	Lea	Effective Date:	06/16/2021 10:38
Type of Sample:	Spot-Cylinder	Method:	GPA-2261M
Heat Trace Used:	N/A	Cylinder No:	5030-03742
Sampling Method:	Fill and Purge	Instrument:	6030_GC6 (Inficon GC-3000 Micro)
Sampling Company:	SPL	Last Inst. Cal.:	06/07/2021 0:00 AM
		Analyzed:	06/17/2021 14:25:21 by KNF

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Hydrogen Sulfide	0.000	0.010	0.015		GPM TOTAL C2+	6.572
Nitrogen	1.426	1.418	1.744		GPM TOTAL C3+	3.226
Methane	72.339	71.940	50.654		GPM TOTAL iC5+	0.516
Carbon Dioxide	3.495	3.476	6.715			
Ethane	12.535	12.466	16.453	3.346		
Propane	6.749	6.712	12.991	1.856		
Iso-butane	0.798	0.794	2.026	0.261		
n-Butane	1.883	1.873	4.778	0.593		
Iso-pentane	0.414	0.412	1.305	0.151		
n-Pentane	0.390	0.388	1.229	0.141		
Hexanes Plus	0.514	0.511	2.090	0.224		
	100.543	100.000	100.000	6.572		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.7895	3.2176
Calculated Molecular Weight	22.78	93.19
Compressibility Factor	0.9960	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F		
Real Gas Dry BTU	1269	5141
Water Sat. Gas Base BTU	1248	5052
Ideal, Gross HV - Dry at 14.73 psia	1264.2	5141.1
Ideal, Gross HV - Wet	1242.2	5051.6
Net BTU Wet Gas - real gas	1133	

Comments: H2S Field Content 100 ppm
Mcf/day 849.8

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.

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Released to Imaging: 10/21/2022 9:40:57 AM

Flaring Summary

	10/9/2022
battery	Sum(TOTAL F...
Cosmo K Battery	62.50
Grand total	62.50

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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

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 152589
	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 152589

QUESTIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 152589
	Action Type: [C-129] Venting and/or Flaring (C-129)

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	*Not answered.*
Incident Facility	**[fAPP2126030570] Cosmo CTB**

Determination of Reporting Requirements	
Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide addional guidance.	
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.**
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 withing 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	72
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) percentage, if greater than one percent	3
Oxygen (02) 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 Sufide (H2S) PPM quality requirement	*Not answered.*
Carbon Dioxide (C02) percentage quality requirement	*Not answered.*
Oxygen (02) percentage quality requirement	*Not answered.*

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QUESTIONS (continued)

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 152589
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	10/09/2022
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	*Not answered.*
Natural Gas Flared (Mcf) Details	Cause: Equipment Failure | Tank (Any) | Natural Gas Flared | Released: 62 Mcf | Recovered: 0 Mcf | Lost: 62 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 flare volumes due to flash gas coming off the tanks and an excess amount of oxygen at the tank level. The flash gas needs to be flared for safety purposes regarding to facility integrity and for those on those working the facility. Tap Rock is analyzing this location and the equipment on location to verify the facility can capture all excess gas. The facility ran with normal operations and no reasoning for the excess flare was found. If flaring continues Tap Rock will alter the facility by placing additional gas takeaway equipment.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Tap Rock saw flare volumes due to flash gas coming off the tanks and an excess amount of oxygen at the tank level. The flash gas needs to be flared for safety purposes regarding to facility integrity and for those on those working the facility. Tap Rock is analyzing this location and the equipment on location to verify the facility can capture all excess gas. The facility ran with normal operations and no reasoning for the excess flare was found. If flaring continues Tap Rock will alter the facility by placing additional gas takeaway equipment.

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ACKNOWLEDGMENTS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 152589
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☑	I acknowledge that I am authorized to submit a *Venting and/or Flaring* (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.
☑	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.
☑	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.
☑	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.
☑	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 152589

CONDITIONS

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	Action Number: 152589
	Action Type: [C-129] Venting and/or Flaring (C-129)

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.	10/21/2022