



Certificate of Analysis

Number: 6030-22030478-004A

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

Mar. 29, 2022

Station Name:	Talco State FC CTB Sales	Sampled By:	Hill
Station Number:	7060436	Sample Of:	Gas Spot
Sample Point:	Meter run	Sample Date:	03/24/2022 02:20
Formation:	Quarterly	Sample Conditions:	108.1 psig, @ 104.2 °F Ambient: 75 °F
County:	Lea, NM	Effective Date:	03/24/2022 02:20
Type of Sample:	Spot-Cylinder	Method:	GPA-2261M
Heat Trace Used:	N/A	Cylinder No:	5030-04680
Sampling Method:	Fill and Purge	Instrument:	70142339 (Inficon GC-MicroFusion)
Sampling Company:	SPL	Last Inst. Cal.:	03/28/2022 0:00 AM
		Analyzed:	03/28/2022 10:46:47 by ERG

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Hydrogen Sulfide	0.000	0.002	0.003		GPM TOTAL C2+	8.785
Nitrogen	1.390	1.386	1.589		GPM TOTAL C3+	4.982
Methane	68.008	67.802	44.513		GPM TOTAL iC5+	1.029
Carbon Dioxide	0.460	0.459	0.827			
Ethane	14.196	14.153	17.416	3.803		
Propane	9.236	9.208	16.616	2.549		
Iso-butane	1.147	1.144	2.721	0.376		
n-Butane	3.256	3.246	7.721	1.028		
Iso-pentane	0.711	0.709	2.093	0.261		
n-Pentane	0.829	0.826	2.439	0.301		
Hexanes Plus	1.068	1.065	4.062	0.467		
	<u>100.301</u>	<u>100.000</u>	<u>100.000</u>	<u>8.785</u>		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8476	3.2176
Calculated Molecular Weight	24.44	93.19
Compressibility Factor	0.9950	

GPA 2172 Calculation:

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

Real Gas Dry BTU	1437	5141
Water Sat. Gas Base BTU	1412	5052
Ideal, Gross HV - Dry at 14.73 psia	1429.5	5141.1
Ideal, Gross HV - Wet	1404.6	5051.6
Net BTU Wet Gas - real gas	1286	

Comments: H2S Field Content 20 ppm
 Mcf/day 5300.4

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

	10/1/2022
battery	Sum(TOTAL F...
Talco State Fed Com Battery	1,260.00
Grand total	1,260.00

battery

Sum(TOTAL FLARE (HP + LP))

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

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District IV
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DEFINITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 148081
	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 148081

QUESTIONS

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	Action Number: 148081
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

QUESTIONS

Prerequisites	
<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 Operator	[372043] TAP ROCK OPERATING, LLC
Incident Type	Flare
Incident Status	Closure Not Approved
Incident Well	Not answered.
Incident Facility	[fAPP2126032949] Talco 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>	

Determination of Reporting Requirements	
<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	Yes
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

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	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	68
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	0
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 148081

QUESTIONS (continued)

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	Action Number: 148081
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	10/01/2022
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	8

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 Valve Natural Gas Flared Released: 1,260 Mcf Recovered: 0 Mcf Lost: 1,260 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	MP flare volume extremely high due to a broken fail open valve on the MP flare line coming from the tank vent blower. Also, the sales gas line pressure is abnormally high and the 2 small VRUs can not discharge into the high pressure sales gas line. The big VRU is down due to chemical in the oil causing the VRU to malfunction. Tap Rock is making adjustments to the equipment.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	MP flare volume extremely high due to a broken fail open valve on the MP flare line coming from the tank vent blower. Also, the sales gas line pressure is abnormally high and the 2 small VRUs can not discharge into the high pressure sales gas line. The big VRU is down due to chemical in the oil causing the VRU to malfunction. Tap Rock is making adjustments to the equipment.

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ACKNOWLEDGMENTS

Action 148081

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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

Action 148081

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	Action Number: 148081
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

CONDITIONS

Created By	Condition	Condition Date
bramsey	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.	10/13/2022