



Certificate of Analysis

Number: 6030-22120303-004A

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

Dec. 30, 2022

Station Name: Money Graham Train 2 Sales
Station Number: 7060734
Sample Point: Meter Run
Formation: Spot
County: Eddy, NM
Type of Sample: Spot-Cylinder
Heat Trace Used: N/A
Sampling Method: Fill and Purge
Sampling Company: SPL

Sampled By: JB
Sample Of: Gas Spot
Sample Date: 12/22/2022
Sample Conditions: 56.2 psig, @ 60.6 °F Ambient: 37 °F
Effective Date: 12/22/2022
Method: GPA 2286
Cylinder No: 1111-003972
Instrument: 6030_GC2 (Agilent GC-7890B)
Last Inst. Cal.: 12/21/2022 15:34 PM
Analyzed: 12/30/2022 09:48:46 by EBH

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Nitrogen	1.085	1.091	1.273		GPM TOTAL C2+	8.020
Methane	71.004	71.425	47.736		GPM TOTAL C3+	4.445
Carbon Dioxide	0.201	0.202	0.370		GPM TOTAL iC5+	1.385
Ethane	13.227	13.306	16.668	3.575		
Propane	7.121	7.163	13.158	1.983		
Iso-butane	0.976	0.982	2.378	0.323		
n-Butane	2.367	2.381	5.765	0.754		
Iso-pentane	0.604	0.608	1.827	0.224		
n-Pentane	0.690	0.694	2.086	0.253		
Hexanes Plus	2.135	2.148	8.739	0.908		
	99.410	100.000	100.000	8.020		

Calculated Physical Properties

Relative Density Real Gas	Total	C6+
	0.8327	3.3828
Calculated Molecular Weight	24.00	97.98
Compressibility Factor	0.9952	

GPA 2172 Calculation:

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

Real Gas Dry BTU	1422	5256
Water Sat. Gas Base BTU	1397	5164
Ideal, Gross HV - Dry at 14.73 psia	1414.7	5255.6
Ideal, Gross HV - Wet	1390.1	0.000
Net BTU Wet Gas - real gas	1272	

Hydrocarbon Laboratory Manager

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



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Sample Conditions: 56.2 psig, @ 60.6 °F
Method: GPA 2286
Cylinder No: 1111-003972
Analyzed: 12/30/2022 09:46:49 by EBH
Sampling Company: SPL

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia
Hydrogen Sulfide	0.000	0.000	
Nitrogen	1.091	1.273	
Methane	71.425	47.736	
Carbon Dioxide	0.202	0.370	
Ethane	13.306	16.668	3.575
Propane	7.163	13.158	1.983
Iso-Butane	0.982	2.378	0.323
n-Butane	2.381	5.765	0.754
Iso-Pentane	0.608	1.827	0.224
n-Pentane	0.694	2.086	0.253
i-Hexanes	0.303	1.074	0.122
n-Hexane	0.218	0.787	0.090
Benzene	0.076	0.246	0.021
Cyclohexane	0.246	0.853	0.083
i-Heptanes	0.319	1.249	0.131
n-Heptane	0.120	0.497	0.055
Toluene	0.076	0.291	0.025
i-Octanes	0.430	1.895	0.192
n-Octane	0.057	0.265	0.029
Ethylbenzene	0.004	0.015	0.002
Xylenes	0.059	0.254	0.023
i-Nonanes	0.120	0.618	0.061
n-Nonane	0.036	0.185	0.020
Decanes Plus	0.084	0.510	0.054
	100.000	100.000	8.020



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Sampled By: JB
Sample Of: Gas Spot
Sample Date: 12/22/2022
Sample Conditions: 56.2 psig, @ 60.6 °F
Method: GPA 2286
Cylinder No: 1111-003972
Analyzed: 12/30/2022 09:46:49 by EBH
Sampling Company: SPL

Calculated Physical Properties	Total	C10+
Calculated Molecular Weight	24.00	151.21
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F		
Real Gas Dry BTU	1421.6	8133.0
Water Sat. Gas Base BTU	1396.9	7952.8
Relative Density Real Gas	0.8327	5.2210
Compressibility Factor	0.9952	
Ideal, Gross HV - Wet	1390.1	
Ideal, Gross HV - Dry at 14.73 psia	1414.7	
Net BTU Dry Gas - real gas	1294	
Net BTU Wet Gas - real gas	1272	

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)	
battery	1/13/2023
	Sum(TOTAL F...
Money Graham CTB B	88.60
Grand total	88.60

Data table:
flare_report_data (2)

Colors:

All values

battery

Sum(TOTAL FLARE (HP + LP))

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

DEFINITIONS

Action 178967

DEFINITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 178967
	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: <ul style="list-style-type: none">• 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 178967

QUESTIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 178967
	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	Unavailable.
Incident Facility	[fAPP2301735532] Money Graham 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	71
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
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 178967

QUESTIONS (continued)

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 178967
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	01/13/2023
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	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 Treating Tower Natural Gas Flared Released: 89 Mcf Recovered: 0 Mcf Lost: 89 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 and shut off tank blowers. Tap Rock saw flare volumes due to flash gas coming off of the tanks and an excess amount of oxygen at the tank level.
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 and shut off tank blowers. Tap Rock saw flare volumes due to flash gas coming off of the tanks and an excess amount of oxygen at the tank level.

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ACKNOWLEDGMENTS

Action 178967

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	Action Number: 178967
	Action Type: [C-129] Venting and/or Flaring (C-129)

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 178967

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	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.	1/24/2023