Certificate of Analysis

Number: 6030-22060120-003A

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 14, 2022

Station Name:	Yada B CTB	Sampled By:	Gerardo Rodriguez
Station Number:		Sample Of:	Gas Spot
Sample Point:	Commingle before checmical	Sample Date:	06/13/2022 10:00
Formation:	Spot	Sample Conditions:	152 psig, @ 92 °F Ambient: 89 °F
County:	Lea	Effective Date:	06/13/2022 10:00
Type of Sample:	Spot-Cylinder	Method:	GPA 2286
Heat Trace Used:	N/A	Cylinder No:	5030-1763
Sampling Method:	Fill and Purge	Instrument:	6030_GC2 (Agilent GC-7890B)
Sampling Company:	SPL	Last Inst. Cal.:	05/17/2022 7:11 AM
		Analyzed:	06/14/2022 06:46:44 by ERG

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Hydrogen Sulfide	0.000	0.170	0.265		GPM TOTAL C2+	5.673
Nitrogen	1.374	1.377	1.765		GPM TOTAL C3+	2.820
Methane	75.878	76.055	55.816		GPM TOTAL iC5+	0.515
Carbon Dioxide	2.455	2.461	4.955			
Ethane	10.603	10.628	14.619	2.853		
Propane	5.484	5.497	11.089	1.520		
Iso-butane	0.808	0.810	2.154	0.266		
n-Butane	1.637	1.641	4.363	0.519		
Iso-pentane	0.433	0.434	1.432	0.159		
n-Pentane	0.359	0.360	1.188	0.131		
Hexanes Plus	0.566	0.567	2.354	0.225		
	99.597	100.000	100.000	5.673		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.7573	3.1328
Calculated Molecular Weight	21.86	90.73
Compressibility Factor	0.9963	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F		
Real Gas Dry BTU	1242	4865
Water Sat. Gas Base BTU	1221	4781
Ideal, Gross HV - Dry at 14.73 psia	1237.7	4865.3
Ideal, Gross HV - Wet	1216.1	0.000
Net BTU Wet Gas - real gas	1108	

Comments: H2S Field Content 1700 ppm

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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Formation:	Spot	Sample Conditions:	152 psig, @ 92 °F
County:	Lea	Method:	GPA 2286
Type of Sample:	Spot-Cylinder	Cylinder No:	5030-1763
Heat Trace Used:	N/A	Analyzed:	06/14/2022 07:15:15 by ERG
Sampling Method:	Fill and Purge	Sampling Company:	SPL

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia
Hydrogen Sulfide	0.170	0.265	
Nitrogen	1.377	1.765	
Methane	76.055	55.816	
Carbon Dioxide	2.461	4.955	
Ethane	10.628	14.619	2.853
Propane	5.497	11.089	1.520
Iso-Butane	0.810	2.154	0.266
n-Butane	1.641	4.363	0.519
Iso-Pentane	0.434	1.432	0.159
n-Pentane	0.360	1.188	0.131
i-Hexanes	0.160	0.628	0.065
n-Hexane	0.079	0.320	0.034
Benzene	0.040	0.145	0.011
Cyclohexane	0.047	0.186	0.016
i-Heptanes	0.089	0.374	0.036
n-Heptane	0.021	0.098	0.010
Toluene	0.032	0.137	0.011
i-Octanes	0.060	0.277	0.026
n-Octane	0.006	0.029	0.003
Ethylbenzene	0.003	0.016	0.001
Xylenes	0.010	0.045	0.004
i-Nonanes	0.012	0.063	0.005
n-Nonane	0.003	0.014	0.001
Decanes Plus	0.005	0.022	0.002
	100.000	100.000	5.673

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Sample Point:	Commingle before checmical	Sample Date:	06/13/2022 10:00
Formation:	Spot	Sample Conditions:	152 psig, @ 92 °F
County:	Lea	Method:	GPA 2286
Type of Sample:	Spot-Cylinder	Cylinder No:	5030-1763
Heat Trace Used:	N/A	Analyzed:	06/14/2022 07:15:15 by ERG
Sampling Method:	Fill and Purge	Sampling Company:	SPL

Calculated Physical Properties	**Total**	**C10+**
Calculated Molecular Weight	21.86	170.33
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F		
Real Gas Dry BTU	1242.3	9292.1
Water Sat. Gas Base BTU	1220.7	9096.5
Relative Density Real Gas	0.7573	5.8812
Compressibility Factor	0.9963	
Ideal, Gross HV - Wet	1216.1	
Ideal, Gross HV - Dry at 14.73 psia	1237.7	
Net BTU Dry Gas - real gas	1127	
Net BTU Wet Gas - real gas	1108	

Comments: H2S Field Content 1700 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

Battery	Date	Total Flare Vol (mcf)	Hrs Flared	Start		End	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
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: 234480
	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 234480

QUESTIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 234480
	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	**[fAPP2126033332] Yada CTB B**

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	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 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	76
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	1,700
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: 234480
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	06/20/2023
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	*Not answered.*
Other Released Details	Cause: Equipment Failure | Tank (Any) | Natural Gas Flared | Released: 100 Mcf | Recovered: 0 Mcf | Lost: 100 Mcf.
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.	True
Please explain reason for why this event was beyond this operator's control	The location experienced a malfunction that was not anticipated and the flaring can be attributed to the downtime of the equipment/VRU
Steps taken to limit the duration and magnitude of vent or flare	Standard PM. Worked with vendor to coordinate service time and minimize downtime.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Standard PM. No way to avoid periodic downtime for maintenance/repairs to address unforeseen issues.

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ACKNOWLEDGMENTS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 234480
	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 234480

CONDITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 234480
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
mlaruecdh	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.	6/29/2023