



# 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  
Station Number:  
Sample Point: Commingle before checmical  
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: 06/13/2022 10:00  
Sample Conditions: 152 psig, @ 92 °F Ambient: 89 °F  
Effective Date: 06/13/2022 10:00  
Method: GPA 2286  
Cylinder No: 5030-1763  
Instrument: 6030\_GC2 (Agilent GC-7890B)  
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 ft<sup>3</sup> @ 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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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
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
	<u>100.000</u>	<u>100.000</u>	<u>5.673</u>



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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
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

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Calculated Physical Properties	Total	C10+
Calculated Molecular Weight	21.86	170.33
<b>GPA 2172 Calculation:</b>		
<b>Calculated Gross BTU per ft<sup>3</sup> @ 14.73 psia &amp; 60°F</b>		
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

Action 243735

**DEFINITIONS**

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 243735
	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 243735

**QUESTIONS**

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 243735
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

<b>Prerequisites</b>	
<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 Well	Unavailable.
Incident Facility	[fAPP2126033332] Yada CTB B

<b>Determination of Reporting Requirements</b>	
<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	No
Is this considered a submission for a vent or flare event	Yes, minor 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

<b>Equipment Involved</b>	
Primary Equipment Involved	Not answered.
Additional details for Equipment Involved. Please specify	Not answered.

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b>	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	76
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	1,700
Carbon Dioxide (CO2) percentage, if greater than one percent	3
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 243735

**QUESTIONS (continued)**

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 243735
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	07/13/2023
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	Not answered.
Other Released Details	Cause: Equipment Failure   Tank ( Any )   Natural Gas Flared   Released: 132 Mcf   Recovered: 0 Mcf   Lost: 132 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

Action 243735

**ACKNOWLEDGMENTS**

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 243735
	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 <b>complete</b> 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 243735

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Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043 <hr/> Action Number: 243735 <hr/> Action Type: [C-129] Venting and/or Flaring (C-129)
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**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.	7/24/2023