



# Certificate of Analysis

Number: 6030-21040262-001A

**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

Apr. 28, 2021

Station Name: Miso State 168H  
Station Number: 7060090  
Sample Point: Meter Run  
Formation: Quarterly  
County: Eddy  
Type of Sample: Spot-Cylinder  
Heat Trace Used: N/A  
Sampling Method: Fill and Purge  
Sampling Company: SPL

Sampled By: Mike West  
Sample Of: Gas Spot  
Sample Date: 04/22/2021  
Sample Conditions: 80 psig, @ 94.6 °F Ambient: 79 °F  
Effective Date: 04/22/2021  
Method: GPA-2261M  
Cylinder No: 5030-01615  
Instrument: 70104251 (Inficon GC-MicroFusion)  
Last Inst. Cal.: 04/26/2021 0:00 AM  
Analyzed: 04/27/2021 07:32:54 by EJР

## Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Hydrogen Sulfide	0.000	0.000	0.000		GPM TOTAL C2+	6.671
Nitrogen	1.057	1.056	1.338		GPM TOTAL C3+	3.366
Methane	75.559	75.518	54.779		GPM TOTAL iC5+	0.737
Carbon Dioxide	0.207	0.207	0.412			
Ethane	12.319	12.313	16.741	3.305		
Propane	6.078	6.075	12.113	1.680		
Iso-butane	0.876	0.876	2.302	0.288		
n-Butane	2.091	2.090	5.493	0.661		
Iso-pentane	0.509	0.509	1.661	0.187		
n-Pentane	0.581	0.581	1.895	0.211		
Hexanes Plus	0.775	0.775	3.266	0.339		
	<u>100.052</u>	<u>100.000</u>	<u>100.000</u>	<u>6.671</u>		

### Calculated Physical Properties

	Total	C6+
Relative Density Real Gas	0.7664	3.2176
Calculated Molecular Weight	22.12	93.19
Compressibility Factor	0.9960	

### GPA 2172 Calculation:

#### Calculated Gross BTU per ft<sup>3</sup> @ 14.73 psia & 60°F

Real Gas Dry BTU	1322	5141
Water Sat. Gas Base BTU	1300	5052
Ideal, Gross HV - Dry at 14.73 psia	1316.6	5141.1
Ideal, Gross HV - Wet	1293.7	5051.6
Net BTU Wet Gas - real gas	1180	

**Comments:** H2S Field Content 0 ppm  
Mcf/day 451

Report generated by: Eric Ramirez

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

Flaring Summary

(Column Names) » date

Data table:  
flare\_report\_data (2)  
Colors:  
All values

battery		Sum(TOTAL F...
		5/28/2021
Miso State #168H		566.00
Grand total		566.00

battery

Sum(TOTAL FLARE (HP + LP))

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
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**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**

QUESTIONS

Action 31609

**QUESTIONS**

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 31609
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

<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 or is this venting or flaring caused by an emergency or malfunction	No
Did or will this venting or flaring last eight hours or more cumulatively within any 24-hour period from a single event	No
Is this considered a submission for a notification of a major venting or flaring	Yes, major venting or flaring of natural gas.
<b>The operator shall file a form C-141 instead of a form C-129 for a release that includes liquid during venting or flaring that is or may be a major or minor release under 19-1-29, NMAC.</b>	
Was there or will there be at least 50 MCF of natural gas vented or flared during this event	Yes
Did this venting or flaring 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

<b>Unregistered Facility Site</b>	
<i>Please provide the facility details, if the venting or flaring occurred or is occurring at a facility that does not have an Facility ID (##) yet.</i>	
Facility or Site Name	Not answered.
Facility Type	Not answered.

<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	0
Carbon Dioxide (CO2) percentage, if greater than one percent	0
Oxygen (O2) percentage, if greater than one percent	0
<b>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</b>	
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.

<b>Date(s) and Time(s)</b>	
Date venting or flaring was discovered or commenced	05/27/2021
Time venting or flaring was discovered or commenced	06:00 AM
Is the venting or flaring event complete	No
Date venting or flaring was terminated	Not answered.
Time venting or flaring was terminated	Not answered.
Total duration of venting or flaring in hours, if venting or flaring has terminated	Not answered.
Longest duration of cumulative hours within any 24-hour period during this event	6

<b>Measured or Estimated Volume of Vented or Flared Natural Gas</b>	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Other   Other (Specify)   Natural Gas Flared   Spilled: 566 Mcf   Recovered: 0 Mcf   Lost: 566 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 Mcf values reported)	Yes, according to supplied volumes this appears to be a "gas only" report.

<b>Venting or Flaring Resulting from Downstream Activity</b>	
Was or is this venting or flaring a result of downstream activity	Not answered.
Date notified of downstream activity requiring this venting or flaring	Not answered.
Time notified of downstream activity requiring this venting or flaring	Not answered.

<b>Steps and Actions to Prevent Waste</b>	
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For this event, the operator could not have reasonably anticipated the current event and it was beyond the operator's control.	False
Please explain reason for why this event was beyond your operator's control	Not answered.
Steps taken to limit the duration and magnitude of venting or flaring	This Location has no pipeline tie in, and thus all gas goes to flare. Tap Rock Operating received flare volumes for this facility on 6/9/2021 and have reported this within 24 hrs of discovery. The well has been choked back as of 6/10 and Tap Rock is making strides to get equipment or a pipeline tie in for a goal of 100% gas capture.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	The well has been choked back as of 6/10 and Tap Rock is making strides to get equipment or a pipeline tie in for a goal of 100% gas capture.

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CONDITIONS  
 Action 31609

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Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 31609
	Action Type: [C-129] Venting and/or Flaring (C-129)

**CONDITIONS**

Created By	Condition	Condition Date
system	If the information provided in this report requires an amendment, submit a [C-129] Request to Amend Venting and/or Flaring Incident, utilizing your incident number from this event.	6/11/2021