



## Certificate of Analysis

Number: 6030-21040262-001A

Artesia Laboratory

200 E Main St.  
Artesia, NM 88210  
Phone 575-746-3481Alex 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: SPLSampled 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 EJR

## Analytical Data

| Components       | Un-normalized<br>Mol % | Mol. %  | Wt. %   | GPM at<br>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                |                |       |
|                  | 100.052                | 100.000 | 100.000 | 6.671                |                |       |

## Calculated Physical Properties

|                             |        |     |        |
|-----------------------------|--------|-----|--------|
| Relative Density Real Gas   | 0.7664 | C6+ | 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

| battery          | 7/21/2021 |
|------------------|-----------|
| Miso State #168H | 676.60    |
| Grand total      | 676.60    |

date

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

battery

Sum(TOTAL FLARE (HP + LP))

**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

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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 37483

**QUESTIONS**

|                                                                                  |                                                        |
|----------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>TAP ROCK OPERATING, LLC<br>523 Park Point Drive<br>Golden, CO 80401 | OGRID:<br>372043                                       |
|                                                                                  | Action Number:<br>37483                                |
|                                                                                  | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

**QUESTIONS****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 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                                                                                                                                                                  | Yes                                           |
| 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 19.13.29.7 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                                            |

**Unregistered Facility Site**

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.

|                       |                     |
|-----------------------|---------------------|
| Facility or Site Name | Miso State CTB      |
| Facility Type         | Tank Battery - (TB) |

**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                                                                                               | 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. |

**Date(s) and Time(s)**

|                                                                                     |               |
|-------------------------------------------------------------------------------------|---------------|
| Date venting or flaring was discovered or commenced                                 | 07/20/2021    |
| 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    | 9             |

**Measured or Estimated Volume of Vented or Flared Natural Gas**

|                                                                        |                                                                                                                      |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Natural Gas Vented (Mcf) Details                                       | Not answered.                                                                                                        |
| Natural Gas Flared (Mcf) Details                                       | Cause: Normal Operations   Producing Well   Natural Gas Flared   Spilled: 677 Mcf   Recovered: 0 Mcf   Lost: 677 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.                                           |

**Venting or Flaring Resulting from Downstream Activity**

|                                                                        |               |
|------------------------------------------------------------------------|---------------|
| 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. |

**Steps and Actions to Prevent Waste**

|                                                                                                                                |                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                          | Tap Rock Operating is currently pending an ACO from the NMOCD. Per an email received by the NMOCD, we may flow this well until a decision is made. Once a final decision has been made, Tap Rock will adjust operations accordingly. |
| Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring                                         | Tap Rock Operating is currently pending an ACO from the NMOCD. Per an email received by the NMOCD, we may flow this well until a decision is made. Once a final decision has been made, Tap Rock will adjust operations accordingly. |

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CONDITIONS  
  
Action 37483

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|                                                                                  |                                                        |
|----------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>TAP ROCK OPERATING, LLC<br>523 Park Point Drive<br>Golden, CO 80401 | OGRID:<br>372043                                       |
|                                                                                  | Action Number:<br>37483                                |
|                                                                                  | Action Type:<br>[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. | 7/22/2021      |