



## Certificate of Analysis

Number: 6030-21080194-010A

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

Aug. 25, 2021

Station Name: Yada Fed Com 135  
Station Number: 7060303  
Sample Point: Meter run  
Formation: Spot  
County: Lea  
Type of Sample: Spot-Cylinder  
Heat Trace Used: N/A  
Sampling Method: Fill and Purge  
Sampling Company: SPL

Sampled By: James Hill  
Sample Of: Gas Spot  
Sample Date: 08/17/2021 10:45  
Sample Conditions: 139.8 psig, @ 128.6 °F Ambient: 90 °F  
Effective Date: 08/17/2021 10:45  
Method: GPA-2261M  
Cylinder No: 5030-02476  
Instrument: 70104124 (Inficon GC-MicroFusion)  
Last Inst. Cal.: 07/08/2021 0:00 AM  
Analyzed: 08/24/2021 09:52:07 by KNF

## Analytical Data

| Components       | Un-normalized<br>Mol % | Mol. %    | Wt. %   | GPM at<br>14.73 psia |
|------------------|------------------------|-----------|---------|----------------------|
| Hydrogen Sulfide | NIL                    | 0.20000   | 0.290   |                      |
| Nitrogen         | 1.282                  | 1.29614   | 1.546   |                      |
| Carbon Dioxide   | 1.424                  | 1.43976   | 2.698   |                      |
| Methane          | 71.822                 | 72.64287  | 49.632  |                      |
| Ethane           | 11.270                 | 11.39915  | 14.597  | 3.062                |
| Propane          | 6.652                  | 6.72799   | 12.635  | 1.862                |
| Iso-Butane       | 1.011                  | 1.02245   | 2.531   | 0.336                |
| n-Butane         | 2.447                  | 2.47455   | 6.125   | 0.783                |
| Iso-Pentane      | 0.763                  | 0.77151   | 2.371   | 0.283                |
| n-Pentane        | 0.705                  | 0.71326   | 2.192   | 0.260                |
| Hexanes          | 0.612                  | 0.61889   | 2.271   | 0.256                |
| Heptanes         | 0.468                  | 0.47294   | 2.018   | 0.219                |
| Octanes          | 0.182                  | 0.18448   | 0.897   | 0.095                |
| Nonanes Plus     | 0.036                  | 0.03601   | 0.197   | 0.020                |
|                  | 98.674                 | 100.00000 | 100.000 | 7.176                |

## Calculated Physical Properties

|                             |        |        |
|-----------------------------|--------|--------|
| Calculated Molecular Weight | Total  | C9+    |
| Compressibility Factor      | 23.48  | 128.26 |
| Relative Density Real Gas   | 0.9955 |        |
|                             | 0.8141 | 4.4283 |

## GPA 2172 Calculation:

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

|                                     |        |        |
|-------------------------------------|--------|--------|
| Real Gas Dry BTU                    | 1358.2 | 7012.5 |
| Water Sat. Gas Base BTU             | 1335.1 | 6890.4 |
| Ideal, Gross HV - Dry at 14.73 psia | 1352.0 | 7012.5 |
| Ideal, Gross HV - Wet               | 1328.5 | 6890.4 |

**Comments:** H2S Field Content 2000 ppm  
CO2 1.3%  
Mcf/dady 2179.5

Data reviewed by: Eric Ramirez, Analyst

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

Flaring Summary

| battery                  | 9/11/2021 |
|--------------------------|-----------|
| Nailed It A Tank Battery | 73.50     |
| Grand total              | 73.50     |

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  
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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 50411

**QUESTIONS**

|                                                                                  |                                                        |
|----------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>TAP ROCK OPERATING, LLC<br>523 Park Point Drive<br>Golden, CO 80401 | OGRID:<br>372043                                       |
|                                                                                  | Action Number:<br>50411                                |
|                                                                                  | Action Type:<br>[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                                                                                                                                                             | Not answered.               |
| Incident Facility                                                                                                                                                         | [fAPP2126033248] Yada CTB A |

|                                                                                                                                                                                                                                                                                                     |                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <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 and/or flaring caused by an emergency or malfunction                                                                                                                                                                                                                         | Yes                                               |
| Did or will this venting and/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 venting and/or flaring event                                                                                                                                                                                                                                  | Yes, major 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 or will there be at least 50 MCF of natural gas vented and/or flared during this event                                                                                                                                                                                                    | Yes                                               |
| Did this venting and/or flaring result in the release of <b>ANY</b> 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 venting and/or flaring within an incorporated municipal boundary or withing 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                                                                                                             | 72            |
| 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                                                                         | 1             |
| 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. |

|                                                         |            |
|---------------------------------------------------------|------------|
| <b>Date(s) and Time(s)</b>                              |            |
| Date venting and/or flaring was discovered or commenced | 09/10/2021 |
| Time venting and/or flaring was discovered or commenced | 06:00 AM   |
| Time venting and/or flaring was terminated              | 06:00 PM   |
| Cumulative hours during this event                      | 9          |

|                                                                     |               |
|---------------------------------------------------------------------|---------------|
| <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: Midstream Emergency Maintenance   Gas Compressor Station   Natural Gas Flared   Released: 622 Mcf   Recovered: 0 Mcf   Lost: 622 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 or is this venting and/or flaring a result of downstream activity      | No            |
| Was notification of downstream activity received by you or your operator   | Not answered. |
| Downstream OGRID that should have notified you or your operator            | Not answered. |
| Date notified of downstream activity requiring this venting and/or flaring | Not answered. |
| Time notified of downstream activity requiring this venting and/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. | True                                                                                                                                                                                                                                                                                                                                                                                             |
| Please explain reason for why this event was beyond your operator's control                                                    | Lucid Energy, our midstream provider, increased flare due to redirecting VRU gas to sour line in the LEA field. Once Lucid can solve their issue, Tap Rock should see normal operations. No timetable has been given to fix this issue. This location is on initial flowback. Once initial flowback has concluded and all gas goes to facility, this location will restore to regulated volumes. |
| Steps taken to limit the duration and magnitude of venting and/or flaring                                                      | N/A as this is a midstream problem                                                                                                                                                                                                                                                                                                                                                               |
| Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring                                     | N/A as this is a midstream problem                                                                                                                                                                                                                                                                                                                                                               |

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CONDITIONS  
  
Action 50411

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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>50411                                |
|                                                                                  | Action Type:<br>[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. | 9/20/2021      |