

# Analysis Certificate Report

## Lucid Energy Group-PURCHASER

6/10/2021 3:44 PM

3100 McKinnon St #800  
Dallas, TX 75201

BROCK A BOWMAN

**Analysis ID:** 14759 **Alternate ID:** **Use Contract Values:** No

**Name** MANDELBAUM CTB **Company Name:** Lucid Energy Group

|                               |                        |                       |        |                              |                    |
|-------------------------------|------------------------|-----------------------|--------|------------------------------|--------------------|
| <b>Effective Date:</b>        | 05/01/2021 08:00       | <b>Saturated HV:</b>  | 1396.5 | <b>Sample Date:</b>          | 05/18/2021         |
| <b>Valid Thru Date:</b>       | 12/31/2078 00:00       | <b>As Del. HV:</b>    | 1406.4 | <b>Sample ID:</b>            | 6030-21050251-011A |
| <b>Fixed Edit Date:</b>       | 01/01/1900 00:00       | <b>Dry HV:</b>        | 1419.7 | <b>Sample Type:</b>          | Spot               |
| <b>Last Update:</b>           | 06/01/2021 09:58       | <b>Measured HV:</b>   | 1419.7 | <b>Sample Pressure Base:</b> | 14.730             |
| <b>Data Acquisition:</b>      | File Transfer from Lab | <b>WOBBE:</b>         | 1558.0 | <b>Sample Temperature:</b>   | 102.0              |
| <b>Data Source:</b>           | Lab Analysis           | <b>Water Content:</b> | 1.0    | <b>Sample Pressure:</b>      | 104.1              |
| <b>Real Relative Density:</b> | 0.8304                 | <b>Status:</b>        | Active | <b>Lab Code:</b>             |                    |

| <u>Component</u> | <u>% Mol</u> | <u>GPM</u> | Dry Gravity | Saturated Gravity |
|------------------|--------------|------------|-------------|-------------------|
| Methane          | 68.8547      |            |             |                   |
| Ethane           | 13.8882      | 3.7323     |             |                   |
| Propane          | 8.1443       | 2.2547     |             |                   |
| I Butane         | 1.0475       | 0.3445     |             |                   |
| N Butane         | 2.8567       | 0.9050     |             |                   |
| I Pentane        | 0.6454       | 0.2372     |             |                   |
| N Pentane        | 0.7381       | 0.2689     |             |                   |
| Hexanes +        | 1.3007       | 0.5704     |             |                   |

|          |        |
|----------|--------|
| Nitrogen | 1.2840 |
| CO2      | 0.2404 |
| Oxygen   | 0.0000 |
| H2O      | 1.0000 |
| CO       | 0.0000 |
| H2S      | 0.0000 |
| Hydrogen | 0.0000 |
| Helium   | 0.0000 |
| Argon    | 0.0000 |

|              |          |        |
|--------------|----------|--------|
| <b>Total</b> | 100.0000 | 8.3130 |
|--------------|----------|--------|

**Sample Comments:**

**Configuration Comments:**

Flaring Summary

| battery            | 11/29/2021     |
|--------------------|----------------|
|                    | Sum(TOTAL F... |
| Mandelbaum Battery | 56.90          |
| Grand total        | 56.90          |

date » (Column Names)

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 64982

**QUESTIONS**

|                                                                                  |                                                        |
|----------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>TAP ROCK OPERATING, LLC<br>523 Park Point Drive<br>Golden, CO 80401 | OGRID:<br>372043                                       |
|                                                                                  | Action Number:<br>64982                                |
|                                                                                  | Action Type:<br>[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     | Not answered.                   |
| Incident Facility | [fAPP2126032666] Mandelbaum CTB |

**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 and/or flaring caused by an emergency or malfunction                                                                                                                                                                                                                  | No                                                |
| Did or will this venting and/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 venting and/or flaring 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 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 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 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                                                |

**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                                                                                                      | 69            |
| 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             |
| 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 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 and/or flaring was discovered or commenced | 11/29/2021 |
| 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                      | 1          |

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

|                                  |               |
|----------------------------------|---------------|
| Natural Gas Vented (Mcf) Details | Not answered. |
|----------------------------------|---------------|

|                                                                           |                                                                                                                     |
|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Natural Gas Flared (Mcf) Details                                          | Cause: Equipment Failure   Treating Tower   Natural Gas Flared   Released: 57 Mcf   Recovered: 0 Mcf   Lost: 57 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      | Not answered. |
| 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. | 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 and/or flaring                                                      | Tap Rock saw a higher than normal flare volume due to downtime on of a VRU unit on location. The downtime increased low pressure flare. Tap Rock is working on the VRU and plans to bring on the wells slowly after the problem is corrected. |
| Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring                                     | Tap Rock is analyzing this location and the equipment on location to verify the facility can capture all excess gas. If flaring continues Tap Rock will alter the facility by placing additional gas takeaway equipment.                      |

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CONDITIONS  
  
Action 64982

CONDITIONS

|                                                                                  |                                                        |
|----------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>TAP ROCK OPERATING, LLC<br>523 Park Point Drive<br>Golden, CO 80401 | OGRID:<br>372043                                       |
|                                                                                  | Action Number:<br>64982                                |
|                                                                                  | 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. | 12/3/2021      |