



Athens, TX (903) 677-0700 . Beeville, TX (361) 354-5200 . Midland, TX (432) 704-5351

**GAS ANALYSIS REPORT**

LAB REPORT NUMBER: HM-9786 - 08162021

PHYSICAL CONSTANTS PER GPA 2145-16

|                 |                       |                |                |
|-----------------|-----------------------|----------------|----------------|
| CUSTOMER:       | BTA OIL PRODUCERS LLC | DATE ANALYZED: | 8/25/2021      |
| STATION:        | 39022114              | DATE ON:       | 8/16/2021      |
| PRODUCER:       | BTA OIL PRODUCERS     | DATE OFF:      |                |
| LEASE:          | MESA B 2H TEST        | SAMPLED BY     | Clint Hemphill |
| EFFECTIVE DATE: | 8/1/2021              |                |                |

| <u>COMPONENT:</u> | <u>MOLE %</u>   | <u>GPM</u>   | <u>WT. %</u>    |
|-------------------|-----------------|--------------|-----------------|
| H2S               | 0.0000          |              | 0.000           |
| OXYGEN            | 0.0340          |              | 0.047           |
| NITROGEN          | 2.3940          |              | 2.920           |
| CARBON DIOXIDE    | 7.4990          |              | 14.369          |
| METHANE           | 72.8200         |              | 50.860          |
| ETHANE            | 8.7430          | 2.334        | 11.446          |
| PROPANE           | 4.7140          | 1.296        | 9.050           |
| I-BUTANE          | 0.6280          | 0.205        | 1.589           |
| N-BUTANE          | 1.4960          | 0.471        | 3.786           |
| I-PENTANE         | 0.4640          | 0.169        | 1.458           |
| N-PENTANE         | 0.4650          | 0.168        | 1.461           |
| HEXANE PLUS       | <u>0.7430</u>   | <u>0.322</u> | <u>3.014</u>    |
| <b>TOTAL</b>      | <b>100.0000</b> | <b>4.965</b> | <b>100.0000</b> |

**(ALL VALUES CALCULATED @ 14.65 PSIA + 60 DEG. F)**

|              |        |               |         |
|--------------|--------|---------------|---------|
| REAL GRAVITY | 0.7957 | BTU WET BASIS | 1134.31 |
| MOL WT.      | 22.969 | BTU DRY BASIS | 1154.04 |
| H2S PPM:     | 2.000  | CO2 %:        |         |

|             |         |               |         |
|-------------|---------|---------------|---------|
| SAMPLE TYPE | SPOT    | SAMPLE PRESS: | 105     |
| CYLINDER NO | HM-9786 | SAMPLE TEMP:  | 99.9    |
| NOTES       |         | COUNTY/STATE: | LEA, NM |

8/26/2021



Mesa B 2H Flare Gas

10/3/2021

121.2

**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**

QUESTIONS

Action 56112

**QUESTIONS**

|                                                                         |                                                        |
|-------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>BTA OIL PRODUCERS, LLC<br>104 S Pecos<br>Midland, TX 79701 | OGRID:<br>260297                                       |
|                                                                         | Action Number:<br>56112                                |
|                                                                         | 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     | [30-025-42125] MESA B 8115 JV P COM #002H |
| Incident Facility | Not answered.                             |

**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                                                                                                                                                                  | Yes                                               |
| 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                                | Separator     |
| 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                                                                                                      | 73            |
| Nitrogen (N2) percentage, if greater than one percent                                                                         | 2             |
| Hydrogen Sulfide (H2S) PPM, rounded up                                                                                        | 2             |
| Carbon Dioxide (CO2) percentage, if greater than one percent                                                                  | 7             |
| 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 | 10/03/2021 |
| Time venting and/or flaring was discovered or commenced | 12:00 AM   |
| Time venting and/or flaring was terminated              | 11:59 PM   |
| Cumulative hours during this event                      | 24         |

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

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

|                                                                           |                                                                                                                   |
|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Natural Gas Flared (Mcf) Details                                          | Cause: High Line Pressure   Separator   Natural Gas Flared   Released: 121 Mcf   Recovered: 0 Mcf   Lost: 121 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. | True                                 |
| Please explain reason for why this event was beyond your operator's control                                                    | Unexpected increase in line pressure |
| Steps taken to limit the duration and magnitude of venting and/or flaring                                                      | Battery Redesign                     |
| Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring                                     | Battery Redesign                     |

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CONDITIONS  
  
Action 56112

CONDITIONS

|                                                                         |                                                        |
|-------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>BTA OIL PRODUCERS, LLC<br>104 S Pecos<br>Midland, TX 79701 | OGRID:<br>260297                                       |
|                                                                         | Action Number:<br>56112                                |
|                                                                         | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

CONDITIONS

| Created By   | Condition                                                                                                                                                                          | Condition Date |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| vanessa king | 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. | 10/14/2021     |