



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

**GAS ANALYSIS REPORT**

LAB REPORT NUMBER: HM-5100 - 03252021

PHYSICAL CONSTANTS PER GPA 2145-16

|                 |                       |                |              |
|-----------------|-----------------------|----------------|--------------|
| CUSTOMER:       | BTA OIL PRODUCERS LLC | DATE ANALYZED: | 4/2/2021     |
| STATION:        | 80939035              | DATE ON:       | 3/25/2021    |
| PRODUCER:       | BTA OIL PRODUCERS     | DATE OFF:      |              |
| LEASE:          | GRAMA 4H CM           | SAMPLED BY     | Larry Miller |
| EFFECTIVE DATE: | 4/1/2021              |                |              |

| <u>COMPONENT:</u> | <u>MOLE %</u>  | <u>GPM</u>   | <u>WT. %</u>   |
|-------------------|----------------|--------------|----------------|
| H2S               | 0.000          |              | 0.000          |
| OXYGEN            | 0.111          |              | 0.168          |
| NITROGEN          | 2.381          |              | 3.146          |
| CARBON DIOXIDE    | 0.349          |              | 0.724          |
| METHANE           | 77.459         |              | 58.611         |
| ETHANE            | 10.985         | 2.931        | 15.579         |
| PROPANE           | 5.191          | 1.427        | 10.796         |
| I-BUTANE          | 0.675          | 0.220        | 1.850          |
| N-BUTANE          | 1.604          | 0.505        | 4.397          |
| I-PENTANE         | 0.368          | 0.134        | 1.252          |
| N-PENTANE         | 0.381          | 0.138        | 1.297          |
| HEXANE PLUS       | <u>0.496</u>   | <u>0.215</u> | <u>2.180</u>   |
| <b>TOTAL</b>      | <b>100.000</b> | <b>5.570</b> | <b>100.000</b> |

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

|              |        |               |         |
|--------------|--------|---------------|---------|
| REAL GRAVITY | 0.7343 | BTU WET BASIS | 1216.40 |
| MOL WT.      | 21.202 | BTU DRY BASIS | 1237.56 |
| H2S PPM:     | 0.000  | CO2 %:        |         |

|             |         |               |         |
|-------------|---------|---------------|---------|
| SAMPLE TYPE | SPOT    | SAMPLE PRESS: | 65      |
| CYLINDER NO | HM-5100 | SAMPLE TEMP:  | 76      |
| NOTES       |         | COUNTY/STATE: | LEA, NM |

5/1/2021

# Grama 4H Flare

## 7/10/2021

### Gas Volumes are reported 1 day late

| CHART            |           | TABLE           |            |         |                            |
|------------------|-----------|-----------------|------------|---------|----------------------------|
| Property         | Yesterday | DOWNLOAD CSV    | Date Range | 30 days | Sta... 06/14/2021 09:55 AM |
|                  |           |                 |            |         | End 07/14/2021 09:55 AM    |
| TimeStamp        |           | Yesterday (MCF) |            |         |                            |
| 7/11/21 11:59 PM |           | 320.9           |            | ▲       |                            |
| 7/11/21 11:03 PM |           | 320.9           |            |         |                            |
| 7/11/21 10:03 PM |           | 320.9           |            | ■       |                            |
| 7/11/21 9:03 PM  |           | 320.9           |            |         |                            |
| 7/11/21 8:03 PM  |           | 320.9           |            |         |                            |
| 7/11/21 7:03 PM  |           | 320.9           |            |         |                            |
| 7/11/21 6:03 PM  |           | 320.9           |            |         |                            |
| 7/11/21 5:03 PM  |           | 320.9           |            |         |                            |
| 7/11/21 4:02 PM  |           | 320.9           |            |         |                            |
| 7/11/21 3:02 PM  |           | 320.9           |            |         |                            |
| 7/11/21 2:02 PM  |           | 320.9           |            |         |                            |
| 7/11/21 1:02 PM  |           | 320.9           |            |         |                            |
| 7/11/21 12:02 PM |           | 320.9           |            |         |                            |
| 7/11/21 11:02 AM |           | 320.9           |            | ▼       |                            |

**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 36274

**QUESTIONS**

|   |  |
|---|--|
| Operator:<br>BTA OIL PRODUCERS, LLC<br>104 S Pecos<br>Midland, TX 79701 | OGRID:<br>260297                                       |
|   | Action Number:<br>36274                                |
|   | 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, minor venting or flaring of natural gas. |
| 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   |   |
| 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 | Gramma 4H CTB      |
| Facility Type         | Flare Stack - (FS) |

**Equipment Involved**

|   |                |
|---|----------------|
| Primary Equipment Involved                                | Pipeline (Any) |
| 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  | 77            |
| Nitrogen (N2) percentage, if greater than one percent   | 2             |
| 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 or flaring was discovered or commenced                                 | 07/10/2021 |
| Time venting or flaring was discovered or commenced                                 | 12:00 AM   |
| Is the venting or flaring event complete  | No         |
| Date venting or flaring was terminated  | 07/10/2021 |
| Time venting or flaring was terminated  | 11:59 PM   |
| Total duration of venting or flaring in hours, if venting or flaring has terminated | 24         |
| Longest duration of cumulative hours within any 24-hour period 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   Pipeline (Any)   Natural Gas Flared   Spilled: 321 Mcf   Recovered: 0 Mcf   Lost: 321 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      | Yes           |
| 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. | True              |
| Please explain reason for why this event was beyond your operator's control  | Spontaneous Event |
| Steps taken to limit the duration and magnitude of venting or flaring  | Battery redesign  |
| Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring   | Battery Redesign  |

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CONDITIONS  
  
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|   |  |
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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. | 7/14/2021      |