



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

**GAS ANALYSIS REPORT**

LAB REPORT NUMBER: WT-1027 - 06042020

PHYSICAL CONSTANTS PER GPA 2145-16

|                 |                       |                |                |
|-----------------|-----------------------|----------------|----------------|
| CUSTOMER:       | BTA OIL PRODUCERS LLC | DATE ANALYZED: | 6/17/2020      |
| STATION:        | 80938151              | DATE ON:       | 6/4/2020       |
| PRODUCER:       | BTA OIL PRODUCERS     | DATE OFF:      |                |
| LEASE:          | HARROUN #4 C-M        | SAMPLED BY     | Landon Johnson |
| EFFECTIVE DATE: | 6/1/2020              |                |                |

| <u>COMPONENT:</u> | <u>MOLE %</u>  | <u>GPM</u>   | <u>WT. %</u>   |
|-------------------|----------------|--------------|----------------|
| H2S               | 0.000          |              | 0.000          |
| OXYGEN            | 0.065          |              | 0.093          |
| NITROGEN          | 18.042         |              | 22.667         |
| CARBON DIOXIDE    | 0.900          |              | 1.776          |
| METHANE           | 66.700         |              | 47.988         |
| ETHANE            | 7.413          | 1.977        | 9.997          |
| PROPANE           | 3.847          | 1.057        | 7.608          |
| I-BUTANE          | 0.478          | 0.156        | 1.246          |
| N-BUTANE          | 0.940          | 0.296        | 2.450          |
| I-PENTANE         | 0.316          | 0.115        | 1.023          |
| N-PENTANE         | 0.293          | 0.106        | 0.948          |
| HEXANE PLUS       | <u>1.006</u>   | <u>0.435</u> | <u>4.204</u>   |
| <b>TOTAL</b>      | <b>100.000</b> | <b>4.141</b> | <b>100.000</b> |

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

|              |        |               |         |
|--------------|--------|---------------|---------|
| REAL GRAVITY | 0.7717 | BTU WET BASIS | 1005.93 |
| MOL WT.      | 22.298 | BTU DRY BASIS | 1023.47 |
| H2S PPM:     | 0.000  | CO2 %:        |         |

|             |         |               |          |
|-------------|---------|---------------|----------|
| SAMPLE TYPE | SPOT    | SAMPLE PRESS: | 66       |
| CYLINDER NO | WT-1027 | SAMPLE TEMP:  | 93       |
| NOTES       |         | COUNTY/STATE: | EDDY, NM |

7/8/2020

# Harroun Ranch East Flare

## 6/21/2021



### Gas Meter Report

Date: 6/28/2021

Time: 2:27 PM

### Harroun Ranch East Flare Gas - Harroun Ranch East LP Flare Meter

Selected Time Frame: Last 5 Years

| Gas Meter Readings                               |      |        |     |      |
|--------------------------------------------------|------|--------|-----|------|
| Date                                             | Diff | Static | MCF | Line |
| --- Gas Meter: Harroun Ranch East LP Flare Meter |      |        |     |      |
| 06/27/2021                                       | 0.00 | 0      | 18  | 0    |
| 06/26/2021                                       | 0.00 | 0      | 13  | 0    |
| 06/25/2021                                       | 0.00 | 0      | 14  | 0    |
| 06/24/2021                                       | 0.00 | 0      | 17  | 0    |
| 06/23/2021                                       | 0.00 | 0      | 24  | 0    |
| 06/22/2021                                       | 0.00 | 0      | 22  | 0    |
| 06/21/2021                                       | 0.00 | 0      | 74  | 0    |
| 06/20/2021                                       | 0.00 | 0      | 23  | 0    |
| 06/19/2021                                       | 0.00 | 0      | 16  | 0    |
| 06/18/2021                                       | 0.00 | 0      | 4   | 0    |
| 06/17/2021                                       | 0.00 | 0      | 15  | 0    |
| 06/16/2021                                       | 0.00 | 0      | 5   | 0    |
| 06/15/2021                                       | 0.00 | 0      | 4   | 0    |

**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 34070

**QUESTIONS**

|                                                                         |                                                        |
|-------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>BTA OIL PRODUCERS, LLC<br>104 S Pecos<br>Midland, TX 79701 | OGRID:<br>260297                                       |
|                                                                         | Action Number:<br>34070                                |
|                                                                         | 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 19.13.297 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 | Harroun Ranch East CTB |
| Facility Type         | Flare Stack - (FS)     |

**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                                                                                                      | 67            |
| Nitrogen (N2) percentage, if greater than one percent                                                                         | 18            |
| 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                                 | 06/21/2021 |
| Time venting or flaring was discovered or commenced                                 | 12:00 AM   |
| Is the venting or flaring event complete                                            | Yes        |
| Date venting or flaring was terminated                                              | 06/21/2021 |
| 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   Separator   Natural Gas Flared   Spilled: 74 Mcf   Recovered: 0 Mcf   Lost: 74 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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**CONDITIONS**

|                                                                         |                                                        |
|-------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>BTA OIL PRODUCERS, LLC<br>104 S Pecos<br>Midland, TX 79701 | OGRID:<br>260297                                       |
|                                                                         | Action Number:<br>34070                                |
|                                                                         | 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. | 6/28/2021      |