



## Certificate of Analysis

Number: 6030-22040473-013A

Artesia Laboratory

200 E Main St.

Artesia, NM 88210

Phone 575-746-3481

Kevin Garrett  
Caza Operating  
200 N. Loraine St Ste 1550  
Midland, TX 79701

May 03, 2022

Station Name: Igloo 19-24 Fed Com 12H

Station Number: 55680019

Station Location: Caza Operating

Sample Point: Meter run

Instrument: 70142339 (Inficon GC-MicroFusion)

Last Inst. Cal.: 05/02/2022 0:00 AM

Analyzed: 05/02/2022 15:45:09 by ERG

Sampled By: RM

Sample Of: Gas Spot

Sample Date: 04/28/2022

Sample Conditions: 117.8 psig, @ 100.8 °F

Effective Date: 04/28/2022

Method: GPA-2261M

Cylinder No: 5030-02178

## Analytical Data

| Components     | Un-normalized<br>Mol % | Mol. %   | Wt. %   | GPM at<br>14.696 psia |                |       |
|----------------|------------------------|----------|---------|-----------------------|----------------|-------|
| Nitrogen       | 4.141                  | 4.21945  | 5.084   |                       | GPM TOTAL C2+  | 7.269 |
| Methane        | 68.340                 | 69.63767 | 48.053  |                       | GPM TOTAL C3+  | 3.775 |
| Carbon Dioxide | 0.787                  | 0.80215  | 1.518   |                       | GPM TOTAL iC5+ | 0.806 |
| Ethane         | 12.801                 | 13.04403 | 16.871  | 3.494                 |                |       |
| Propane        | 7.138                  | 7.27357  | 13.796  | 2.007                 |                |       |
| Iso-butane     | 0.828                  | 0.84362  | 2.109   | 0.277                 |                |       |
| n-Butane       | 2.127                  | 2.16781  | 5.420   | 0.685                 |                |       |
| Iso-pentane    | 0.484                  | 0.49279  | 1.529   | 0.181                 |                |       |
| n-Pentane      | 0.509                  | 0.51836  | 1.609   | 0.188                 |                |       |
| Hexanes Plus   | 0.982                  | 1.00055  | 4.011   | 0.437                 |                |       |
|                | 98.137                 | 100.0000 | 100.000 | 7.269                 |                |       |

## Calculated Physical Properties

Relative Density Real Gas

Total

0.8058

C6+

3.2176

Calculated Molecular Weight

23.25

93.19

Compressibility Factor

0.9958

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia & 60°F

Real Gas Dry BTU

1313

5129

Water Sat. Gas Base BTU

1290

5040

Ideal, Gross HV - Dry at 14.696 psia

1307.2

5129.2

Ideal, Gross HV - Wet

1284.4

5039.7

Hydrocarbon Laboratory Manager

Quality Assurance:

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

## Caza Flared Gas Calculation Igloo Federal CTB

input

calculated

**source**

pumpers text

pumpers text

prodman ctb report

|                                               |            |
|-----------------------------------------------|------------|
| Date                                          | 10/16/2022 |
| Reported Flared metered Volume (mcf)          | 1345       |
| Last 7 Day Avg metered Gas Production (mcf)   | 403.29     |
| % of gas flared vs Produced (% mcf) & (% hrs) | 333.5%     |
| Avg Gas production per hour for 24 hrs (mcf)  | 16.80      |
| number of hours flare was active (hours)      | 80.04      |

**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**

DEFINITIONS

Action 151100

DEFINITIONS

|                                                                           |                                                               |
|---------------------------------------------------------------------------|---------------------------------------------------------------|
| Operator:<br>CAZA OPERATING, LLC<br>200 N Loraine St<br>Midland, TX 79701 | OGRID:<br>249099                                              |
|                                                                           | Action Number:<br>151100                                      |
|                                                                           | Action Type:<br>[C-129] Amend Venting and/or Flaring (C-129A) |

DEFINITIONS

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application: <ul style="list-style-type: none"><li>• this application's operator, hereinafter "this operator";</li><li>• venting and/or flaring, hereinafter "vent or flare";</li><li>• any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";</li><li>• the statements in (and/or attached to) this, hereinafter "the statements in this";</li><li>• and the past tense will be used in lieu of mixed past/present tense questions and statements.</li></ul> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**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 151100

QUESTIONS

|                                                                               |                                                                   |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Operator:<br><br>CAZA OPERATING, LLC<br>200 N Loraine St<br>Midland, TX 79701 | OGRID:<br><br>249099                                              |
|                                                                               | Action Number:<br><br>151100                                      |
|                                                                               | Action Type:<br><br>[C-129] Amend Venting and/or Flaring (C-129A) |

QUESTIONS

|                                                                                                                                                                                                   |                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| <b>Prerequisites</b><br><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 Operator                                                                                                                                                                                 | [249099] CAZA OPERATING, LLC                       |
| Incident Type                                                                                                                                                                                     | Vent                                               |
| Incident Status                                                                                                                                                                                   | Closure Approved                                   |
| Incident Well                                                                                                                                                                                     | [30-025-46411] IGLOO 19 24 STATE FEDERAL COM #012H |
| Incident Facility                                                                                                                                                                                 | Not answered.                                      |
| Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section) that are assigned to your current operator can be amended with this C-129A application. |                                                    |

|                                                                                                                                                                                                                                                                                     |                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <b>Determination of Reporting Requirements</b><br><i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>                                                                                        |                                                   |
| Was this vent or flare caused by an emergency or malfunction                                                                                                                                                                                                                        | No                                                |
| Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event                                                                                                                                                                          | Yes                                               |
| Is this considered a submission for a vent or flare event                                                                                                                                                                                                                           | Yes, major 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 at least 50 MCF of natural gas vented and/or flared during this event                                                                                                                                                                                                     | Yes                                               |
| Did this vent or flare 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 vent or flare 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><br><i>Please provide the mole percent for the percentage questions in this group.</i> |    |
| Methane (CH4) percentage                                                                                                                                           | 70 |
| Nitrogen (N2) percentage, if greater than one percent                                                                                                              | 4  |
| Hydrogen Sulfide (H2S) PPM, rounded up                                                                                                                             | 0  |
| Carbon Dioxide (C02) percentage, if greater than one percent                                                                                                       | 1  |
| 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                                                                                                                       | 0  |
| Nitrogen (N2) percentage quality requirement                                                                                                                       | 0  |
| Hydrogen Sufide (H2S) PPM quality requirement                                                                                                                      | 0  |
| Carbon Dioxide (C02) percentage quality requirement                                                                                                                | 0  |
| Oxygen (O2) percentage quality requirement                                                                                                                         | 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, Page 2

Action 151100

QUESTIONS (continued)

|                                                                           |                                                               |
|---------------------------------------------------------------------------|---------------------------------------------------------------|
| Operator:<br>CAZA OPERATING, LLC<br>200 N Loraine St<br>Midland, TX 79701 | OGRID:<br>249099                                              |
|                                                                           | Action Number:<br>151100                                      |
|                                                                           | Action Type:<br>[C-129] Amend Venting and/or Flaring (C-129A) |

QUESTIONS

| Date(s) and Time(s)                            |            |
|------------------------------------------------|------------|
| Date vent or flare was discovered or commenced | 10/16/2022 |
| Time vent or flare was discovered or commenced | 12:00 AM   |
| Time vent or flare 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                                          | Cause: Other   Gas Plant   Natural Gas Vented   Released: 1,354 Mcf   Recovered: 0 Mcf   Lost: 1,354 Mcf ] |
| Natural Gas Flared (Mcf) Details                                          | Not answered.                                                                                              |
| Other Released Details                                                    | Cause:     Other (Specify)   Released: 0 (Unknown Released Amount)   Recovered: 0   Lost: 0 ]              |
| 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 this vent or flare a result of downstream activity            | Yes                          |
| Was notification of downstream activity received by this operator | Yes                          |
| Downstream OGRID that should have notified this operator          | [238258] TARGA RESOURCES INC |
| Date notified of downstream activity requiring this vent or flare | 10/11/2022                   |
| Time notified of downstream activity requiring this vent or flare | 09:16 AM                     |

| Steps and Actions to Prevent Waste                                                                                              |                                                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control | True                                                                                                                                   |
| Please explain reason for why this event was beyond this operator's control                                                     | The downstream operator had gas plant shutdown due to a producer oxygen violation. This event was outside the control of the operator. |
| Steps taken to limit the duration and magnitude of vent or flare                                                                | Flare minimal mcf                                                                                                                      |
| Corrective actions taken to eliminate the cause and reoccurrence of vent or flare                                               | The downstream operator had gas plant shutdown due to a producer oxygen violation. This event was outside the control of the operator. |

**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**

ACKNOWLEDGMENTS  
  
Action 151100

**ACKNOWLEDGMENTS**

|                                                                           |                                                               |
|---------------------------------------------------------------------------|---------------------------------------------------------------|
| Operator:<br>CAZA OPERATING, LLC<br>200 N Loraine St<br>Midland, TX 79701 | OGRID:<br>249099                                              |
|                                                                           | Action Number:<br>151100                                      |
|                                                                           | Action Type:<br>[C-129] Amend Venting and/or Flaring (C-129A) |

**ACKNOWLEDGMENTS**

|                                     |                                                                                                                                                                                                                                                                                                     |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | I acknowledge that with this application I will be amending an existing incident file (assigned to this operator) for a vent or flare event, pursuant to 19.15.27 and 19.15.28 NMAC.                                                                                                                |
| <input checked="" type="checkbox"/> | I acknowledge that amending an incident file does not replace original submitted application(s) or information and understand that any C-129 forms submitted to the OCD will be logged and stored as public record.                                                                                 |
| <input checked="" type="checkbox"/> | I hereby certify the statements in this amending report are true and correct to the best of my knowledge and acknowledge that any false statement may be subject to civil and criminal penalties under the Oil and Gas Act.                                                                         |
| <input checked="" type="checkbox"/> | I acknowledge that the acceptance of any C-129 forms by the OCD does not relieve this operator of liability should their operations have failed to adequately investigate, report, and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment. |
| <input checked="" type="checkbox"/> | I acknowledge that OCD acceptance of any C-129 forms does not relieve this operator of responsibility for compliance with any other applicable federal, state, or local laws and/or regulations.                                                                                                    |

**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**

CONDITIONS

Action 151100

**CONDITIONS**

|                                                                           |                                                               |
|---------------------------------------------------------------------------|---------------------------------------------------------------|
| Operator:<br>CAZA OPERATING, LLC<br>200 N Loraine St<br>Midland, TX 79701 | OGRID:<br>249099                                              |
|                                                                           | Action Number:<br>151100                                      |
|                                                                           | Action Type:<br>[C-129] Amend Venting and/or Flaring (C-129A) |

**CONDITIONS**

| Created By | Condition                                                                                                                                                                                  | Condition Date |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| tberry     | If the information provided in this report requires further amendment(s), submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event. | 10/17/2022     |