



## Certificate of Analysis

Number: 6030-21080020-003A

Artesia Laboratory

200 E Main St.  
Artesia, NM 88210  
Phone 575-746-3481Caza Operating  
Caza Operating  
200 N. Loraine St Ste 1550  
Midland, TX 79701

Aug. 05, 2021

Station Name: Comanche 25-36 State 1H  
Station Number: 55680039  
Station Location: Caza  
Sample Point: Meter Run  
Instrument: 6030\_GC2 (Agilent GC-7890B)  
Last Inst. Cal.: 07/20/2021 12:55 PM  
Analyzed: 08/04/2021 08:47:56 by KNFSampled By: Derek Sauder  
Sample Of: Gas Spot  
Sample Date: 07/30/2021 08:28  
Sample Conditions: 119.6 psig, @ 127.1 °F Ambient: 80 °F  
Effective Date: 07/30/2021 08:28  
Method: GPA 2286  
Cylinder No: 5030-01268

## Analytical Data

| Components       | Un-normalized<br>Mol % | Mol. %    | Wt. %   | GPM at<br>14.696 psia |                      |
|------------------|------------------------|-----------|---------|-----------------------|----------------------|
| Hydrogen Sulfide | 0.000                  | 0.00700   | 0.010   |                       | GPM TOTAL C2+ 6.657  |
| Nitrogen         | 0.979                  | 1.00600   | 1.184   |                       | GPM TOTAL C3+ 4.220  |
| Methane          | 73.151                 | 75.16500  | 50.673  |                       | GPM TOTAL iC5+ 1.628 |
| Carbon Dioxide   | 1.780                  | 1.82900   | 3.383   |                       |                      |
| Ethane           | 8.848                  | 9.09200   | 11.489  | 2.437                 |                      |
| Propane          | 5.216                  | 5.36000   | 9.932   | 1.480                 |                      |
| Iso-butane       | 1.051                  | 1.08000   | 2.638   | 0.354                 |                      |
| n-Butane         | 2.336                  | 2.40000   | 5.862   | 0.758                 |                      |
| Iso-pentane      | 0.838                  | 0.86100   | 2.610   | 0.316                 |                      |
| n-Pentane        | 0.741                  | 0.76100   | 2.307   | 0.276                 |                      |
| Hexanes Plus     | 2.374                  | 2.43900   | 9.912   | 1.036                 |                      |
|                  | 97.314                 | 100.00000 | 100.000 | 6.657                 |                      |

| Calculated Physical Properties | Total  | C6+    |
|--------------------------------|--------|--------|
| Relative Density Real Gas      | 0.8253 | 3.3464 |
| Calculated Molecular Weight    | 23.80  | 96.92  |
| Compressibility Factor         | 0.9954 |        |

## GPA 2172 Calculation:

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

|                                      |        |        |
|--------------------------------------|--------|--------|
| Real Gas Dry BTU                     | 1367   | 5201   |
| Water Sat. Gas Base BTU              | 1343   | 5110   |
| Ideal, Gross HV - Dry at 14.696 psia | 1360.2 | 5200.5 |
| Ideal, Gross HV - Wet                | 1336.5 | 0.000  |

Comments: H2S Field Content 65 ppm  
Mcf/day 801.3

Data reviewed by: Krystle Fitzwater, Laboratory Manager

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



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Aug. 05, 2021

Station Name: Comanche 25-36 State 1H  
Station Number: 55680039  
Station Location: Caza  
Sample Point: Meter Run  
Analyzed: 08/05/2021 09:04:35 by KNFSampled By: Derek Sauder  
Sample Of: Gas Spot  
Sample Date: 07/30/2021 08:28  
Sample Conditions: 119.6 psig, @ 127.1 °F  
Method: GPA 2286  
Cylinder No: 5030-01268

## Analytical Data

| Components       | Mol. %  | Wt. %   | GPM at<br>14.696 psia |
|------------------|---------|---------|-----------------------|
| Hydrogen Sulfide | 0.007   | 0.010   |                       |
| Nitrogen         | 1.006   | 1.184   |                       |
| Methane          | 75.165  | 50.673  |                       |
| Carbon Dioxide   | 1.829   | 3.383   |                       |
| Ethane           | 9.092   | 11.489  | 2.437                 |
| Propane          | 5.360   | 9.932   | 1.480                 |
| Iso-Butane       | 1.080   | 2.638   | 0.354                 |
| n-Butane         | 2.400   | 5.862   | 0.758                 |
| Iso-Pentane      | 0.861   | 2.610   | 0.316                 |
| n-Pentane        | 0.761   | 2.307   | 0.276                 |
| i-Hexanes        | 0.521   | 1.863   | 0.210                 |
| n-Hexane         | 0.327   | 1.169   | 0.133                 |
| Benzene          | 0.042   | 0.143   | 0.012                 |
| Cyclohexane      | 0.144   | 0.509   | 0.049                 |
| i-Heptanes       | 0.385   | 1.514   | 0.161                 |
| n-Heptane        | 0.146   | 0.611   | 0.068                 |
| Toluene          | 0.120   | 0.470   | 0.040                 |
| i-Octanes        | 0.360   | 1.602   | 0.165                 |
| n-Octane         | 0.066   | 0.321   | 0.034                 |
| Ethylbenzene     | 0.017   | 0.071   | 0.006                 |
| Xylenes          | 0.095   | 0.424   | 0.037                 |
| i-Nonanes        | 0.111   | 0.561   | 0.057                 |
| n-Nonane         | 0.038   | 0.199   | 0.021                 |
| Decanes Plus     | 0.067   | 0.455   | 0.043                 |
|                  | 100.000 | 100.000 | 6.657                 |



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Cylinder No: 5030-01268

---

| Calculated Physical Properties                                          | Total  | C10+   |
|-------------------------------------------------------------------------|--------|--------|
| Calculated Molecular Weight                                             | 23.80  | 147.87 |
| <b>GPA 2172 Calculation:</b>                                            |        |        |
| <b>Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia &amp; 60°F</b> |        |        |
| Real Gas Dry BTU                                                        | 1366.5 | 7917.1 |
| Water Sat. Gas Base BTU                                                 | 1342.7 | 7743.1 |
| Relative Density Real Gas                                               | 0.8253 | 5.1057 |
| Compressibility Factor                                                  | 0.9954 |        |
| Ideal, Gross HV - Wet                                                   | 1336.5 |        |
| Ideal, Gross HV - Dry at 14.696 psia                                    | 1360.2 |        |
| Net BTU Dry Gas - real gas                                              | 1243   |        |
| Net BTU Wet Gas - real gas                                              | 1221   |        |

**Comments:** H2S Field Content 65 ppm  
Mcf/day 801.3

Data reviewed by: Krystle Fitzwater, 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 Comanche CTB

input

calculated

|                                               |           |
|-----------------------------------------------|-----------|
| Date                                          | 2/21/2023 |
| Reported Flared metered Volume (mcf)          | 701       |
| Last 7 Day Avg metered Gas Production (mcf)   | 3240      |
| % of gas flared vs Produced (% mcf) & (% hrs) | 21.6%     |
| Avg Gas production per hour for 24 hrs (mcf)  | 135.00    |
| number of hours flare was active (hours)      | 5.19      |

### source

pumpers text

pumpers text

prodman ctb report

**District I**  
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**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

DEFINITIONS

Action 226396

DEFINITIONS

|                                                                           |                                                               |
|---------------------------------------------------------------------------|---------------------------------------------------------------|
| Operator:<br>CAZA OPERATING, LLC<br>200 N Loraine St<br>Midland, TX 79701 | OGRID:<br>249099                                              |
|                                                                           | Action Number:<br>226396                                      |
|                                                                           | 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> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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**Oil Conservation Division**  
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QUESTIONS

Action 226396

**QUESTIONS**

|                                                                           |                                                               |
|---------------------------------------------------------------------------|---------------------------------------------------------------|
| Operator:<br>CAZA OPERATING, LLC<br>200 N Loraine St<br>Midland, TX 79701 | OGRID:<br>249099                                              |
|                                                                           | Action Number:<br>226396                                      |
|                                                                           | Action Type:<br>[C-129] Amend Venting and/or Flaring (C-129A) |

**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 Operator | [249099] CAZA OPERATING, LLC                          |
| Incident Type     | Flare                                                 |
| Incident Status   | Closure Not Approved                                  |
| Incident Well     | [30-025-47449] COMANCHE 25 36 FEDERAL STATE COM #001H |
| Incident Facility | Unavailable.                                          |

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.

**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 this vent or flare caused by an emergency or malfunction                                               | Yes                                               |
| Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event | No                                                |
| 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 <b>ANY</b> 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 within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence                                                                                                              | No  |

**Equipment Involved**

|                                                           |               |
|-----------------------------------------------------------|---------------|
| Primary Equipment Involved                                | Gas Plant     |
| 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                                     | 75 |
| 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 | 2  |
| 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. |



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QUESTIONS, Page 2

Action 226396

**QUESTIONS (continued)**

|                                                                           |                                                               |
|---------------------------------------------------------------------------|---------------------------------------------------------------|
| Operator:<br>CAZA OPERATING, LLC<br>200 N Loraine St<br>Midland, TX 79701 | OGRID:                                                        |
|                                                                           | 249099                                                        |
|                                                                           | Action Number:<br>226396                                      |
|                                                                           | 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 | 02/21/2023 |
| Time vent or flare was discovered or commenced | 07:00 AM   |
| Time vent or flare was terminated              | 12:15 PM   |
| Cumulative hours during this event             | 5          |

| Measured or Estimated Volume of Vented or Flared Natural Gas              |                                                                                                       |
|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Natural Gas Vented (Mcf) Details                                          | Not answered.                                                                                         |
| Natural Gas Flared (Mcf) Details                                          | Cause: Other   Gas Plant   Natural Gas Flared   Released: 701 Mcf   Recovered: 0 Mcf   Lost: 701 Mcf. |
| 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 | No                                   |
| Downstream OGRID that should have notified this operator          | [24650] TARGA MIDSTREAM SERVICES LLC |
| Date notified of downstream activity requiring this vent or flare |                                      |
| Time notified of downstream activity requiring this vent or flare | Not answered.                        |

| 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                                                     | Downstream operator had gas plant shutdown. Foam issue. This event was not within 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                                               | Downstream operator had gas plant shutdown. Foam issue. This event was not within the control of the operator. |





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ACKNOWLEDGMENTS  
  
Action 226396

**ACKNOWLEDGMENTS**

|                                                                           |                                                               |
|---------------------------------------------------------------------------|---------------------------------------------------------------|
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|                                                                           | Action Number:<br>226396                                      |
|                                                                           | 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.                                                                                                    |

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CONDITIONS  
  
Action 226396

CONDITIONS

|                                                                               |                                                                   |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Operator:<br><br>CAZA OPERATING, LLC<br>200 N Loraine St<br>Midland, TX 79701 | OGRID:<br><br>249099                                              |
|                                                                               | Action Number:<br><br>226396                                      |
|                                                                               | Action Type:<br><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. | 6/12/2023      |