



# Certificate of Analysis

Number: 6030-26050061-002A

**Artesia Laboratory**  
 200 E Main St.  
 Artesia, NM 88210  
 Phone 575-746-3481

Paul Martinez  
 Earthstone  
 801 Cherry St, Suite 1200  
 Fort Worth, TX 76102

|                   |                                     |                    |                                   |
|-------------------|-------------------------------------|--------------------|-----------------------------------|
| Station Name:     | EILEEN 25 FED COM 112H -- METER RUN | Report Date:       | 05/01/2026                        |
| Station Number:   | N/A                                 | Sampled By:        | Francisco Romero                  |
| Sample Point:     | METER RUN                           | Sample Of:         | Gas                               |
| Type of Sample:   | Spot-Cylinder                       | Sample Type:       | Spot                              |
| Heat Trace Used:  | N/A                                 | Sample Conditions: | 120 psig, @ 102 °F Ambient: 55 °F |
| Sampling Method:  | Fill and Purge                      | Sample Date:       | 04/30/2026 05:00                  |
| Sampling Company: | SPL                                 | Received Date:     | 05/01/2026                        |
| Method:           | GPA-2261M                           | Login Date:        | 05/01/2026                        |
| Cylinder No:      | 1111-005436                         | Effective Date:    | 05/01/2026                        |
| Instrument:       | 70142339 (Inficon GC-MicroFusion)   | Flow Rate:         |                                   |
| Last Inst. Cal.:  | 04/27/2026 07:42:03                 | Sampling Method:   | Purge/Fill                        |
| Analyzed:         | 05/01/2026 10:41:05 by CDW          | Heating Method:    | N/A                               |

## Analytical Data

| Components       | Un-normalized Mol % | Mol. %  | Wt. %   | GPM at 14.73 psia |                      |
|------------------|---------------------|---------|---------|-------------------|----------------------|
| Hydrogen Sulfide | 0.000               | 0.400   | 0.515   |                   | GPM TOTAL C2+ 7.511  |
| Nitrogen         | 2.955               | 2.907   | 3.074   |                   | GPM TOTAL C3+ 4.140  |
| Methane          | 60.350              | 59.380  | 35.965  |                   | GPM TOTAL iC5+ 0.929 |
| Carbon Dioxide   | 11.513              | 11.328  | 18.821  |                   |                      |
| Ethane           | 12.752              | 12.547  | 14.243  | 3.371             |                      |
| Propane          | 7.811               | 7.685   | 12.793  | 2.127             |                      |
| Iso-butane       | 0.931               | 0.916   | 2.010   | 0.301             |                      |
| n-Butane         | 2.513               | 2.473   | 5.426   | 0.783             |                      |
| Iso-pentane      | 0.718               | 0.706   | 1.923   | 0.259             |                      |
| n-Pentane        | 0.771               | 0.759   | 2.067   | 0.276             |                      |
| Hexanes Plus     | 0.914               | 0.899   | 3.163   | 0.394             |                      |
|                  | 101.228             | 100.000 | 100.000 | 7.511             |                      |

|                                       |              |            |
|---------------------------------------|--------------|------------|
| <b>Calculated Physical Properties</b> | <b>Total</b> | <b>C6+</b> |
| Relative Density Real Gas             | 0.9187       | 3.2176     |
| Calculated Molecular Weight           | 26.49        | 93.19      |
| Compressibility Factor                | 0.9951       |            |

**GPA 2172 Calculation:**

**Calculated Gross BTU per ft<sup>3</sup> @ 14.73 psia & 60°F**

|                         |      |      |
|-------------------------|------|------|
| Real Gas Dry BTU        | 1242 | 5141 |
| Water Sat. Gas Base BTU | 1221 | 5052 |

**Comments:** H2S Field Content: 0.4 %

*Mostaq Ahammad*

Mostaq Ahammad, Petroleum Chemist

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

# **PERMIAN**

RESOURCES

Permian Resources meters all flared volumes, and volumes reported on C-129's in connection with flaring events are based on the available meter readings. While Permian Resources reports metered volumes on C-129 submissions, PR reviews the metered data for accuracy, reconciles any discovered discrepancies, and, where appropriate, submits amended C-129 reported volumes post-reconciliation to ensure accurate reporting.



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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**

QUESTIONS

Action 588587

**QUESTIONS**

|   |   |
|---|---|
| Operator:<br>Permian Resources Operating, LLC<br>300 N. Marienfeld St Ste 1000<br>Midland, TX 79701 | OGRID:<br>372165  |
|   | Action Number:<br>588587                                      |
|   | Action Type:<br>[C-129] Amend Venting and/or Flaring (C-129A) |

**QUESTIONS**

|  |                                  |
|--|----------------------------------|
| <b>Prerequisites</b>   |                                  |
| <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 ID (n#)   | Unavailable.                     |
| Incident Name  | Unavailable.                     |
| Incident Type  | Flare                            |
| Incident Status  | Unavailable.                     |
| Incident Facility  | [fAPP2607174552] Eileen 25 CTB 1 |
| <i>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.</i> |                                  |

|   |   |
|---|---|
| <b>Determination of Reporting Requirements</b>  |   |
| <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  | 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. |
| <i>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.</i>  |   |
| 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 within 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>   |               |
| <i>Please provide the mole percent for the percentage questions in this group.</i>   |               |
| Methane (CH4) percentage   | 60            |
| Nitrogen (N2) percentage, if greater than one percent  | 3             |
| Hydrogen Sulfide (H2S) PPM, rounded up   | 0             |
| Carbon Dioxide (CO2) percentage, if greater than one percent   | 12            |
| Oxygen (O2) percentage, if greater than one percent  | 0             |
| <i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i> |               |
| 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 (continued)**

|   |   |
|---|---|
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|   | Action Number:<br>588587                                      |
|   | 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 | 05/18/2026 |
| Time vent or flare was discovered or commenced | 06:00 AM   |
| Time vent or flare was terminated              | 08:00 AM   |
| Cumulative hours during this event             | 2          |

| Measured or Estimated Volume of Vented or Flared Natural Gas              |  |
|---|--|
| Natural Gas Vented (Mcf) Details  | Not answered.  |
| Natural Gas Flared (Mcf) Details  | Cause: Midstream Emergency Maintenance   Pipeline (Any)   Natural Gas Flared   Released: 1,523 Mcf   Recovered: 0 Mcf   Lost: 1,523 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 this vent or flare a result of downstream activity            | No            |
| Was notification of downstream activity received by this operator | Not answered. |
| Downstream OGRID that should have notified this operator          | Not answered. |
| 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   | Targa high line pressure at Impala   |
| Steps taken to limit the duration and magnitude of vent or flare  | Open valves to divert gas to a second midstream company to relieve pressure off the line |
| Corrective actions taken to eliminate the cause and reoccurrence of vent or flare   | Clear consistent communication with midstream provider                                   |





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