

**ARMSTRONG GAS LABS, INC.**

P.O. Box 988  
 Monahans, Texas 79756  
 (432) 943-8844 (FAX) 943-8855

**GAS ANALYSIS REPORT**

Analysis No.: 333237  
 Customer: Centennial

| <u>Component</u> | <u>Mol. %</u> | (Ideal)<br><u>BTU</u> | (Ideal)<br><u>SG</u> | (Real)<br><u>GPM</u> |  |
|------------------|---------------|-----------------------|----------------------|----------------------|--|
| Nitrogen         | 3.0980        | 0.000                 | 0.030                |                      |  |
| Methane          | 64.4840       | 649.250               | 0.357                |                      |  |
| CO2              | 11.2632       | 0.000                 | 0.171                |                      |  |
| Ethane           | 10.8120       | 190.741               | 0.112                | 2.887                |  |
| H2S              | 0.0000        | 0.000                 | 0.000                |                      |  |
| Propane          | 6.2602        | 157.020               | 0.095                | 1.722                |  |
| Iso-Butane       | 0.7409        | 24.018                | 0.015                | 0.242                |  |
| Butane           | 1.8408        | 59.864                | 0.037                | 0.579                |  |
| Iso-Pentane      | 0.4442        | 17.716                | 0.011                | 0.162                |  |
| Pentane          | 0.4421        | 17.667                | 0.011                | 0.160                |  |
| Hexanes C6+      | 0.6146        | 31.426                | 0.020                | 0.268                |  |
| Hydrogen         | N/A           |                       |                      |                      |  |
| Helium           | N/A           |                       |                      |                      |  |
| Oxygen           | N/A           |                       |                      |                      |  |
| CO               | N/A           |                       |                      |                      |  |
| Totals           | 100.0000      | 1147.702              | 0.860                | 6.020                |  |

**Producer:** Centennial  
**Well / Sta. Name:** Raider Fed Com 502H - 701 H sales check  
**Sta. No.:** 30601  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** N/L

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 09/26/23  
 Date to Lab: 09/27/23  
 Date Analyzed: 09/28/23  
 Effective Date:

Sample Press. (PSIG): 111  
 Line Press. (PSIG): 111  
 Sample Temp. (F): 91  
 Fl. Gas Temp. (F): 91  
 Amb. Temp. (F): 76

Del. To:  
 Sampled By: IF  
 Cylinder No.: 818

**Field H2O (#/mm):****Field H2S (PPM):** 0.0

Field H2S (Grains): 0.0

**Pressure Base:** 14.65**Temp. Base:** 60

Z Factor (Dry): 0.9958624

Z Factor (Act.): 0.9958624

Dry BTU w/ H2S: 1152.47

Sat BTU w/ H2S: 1132.76

As Del. BTU w/ H2S: 1152.47

**Dry BTU W/O H2S (Real):** 1152.47**Sat. BTU W/O H2S (Real):** 1132.76**H2O (# / mmcf):** 0.0**AS DEL. BTU W/O H2S (Real):** 1152.47*BTU Calc: Dry***Sp. Gravity (Real):** 0.8627

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real):** 6.020**GPM Propane+ (Real):** 3.133**GPM IC5+ (Real):** 0.590

GPA 2145 / 2172

**Fld. Remarks:** FR 1314.82**Lab Remarks:** TAG: NO API PER W. SHIPLEY

**\*Preliminary Production Data\***

| <u>Well Name</u>     | <u>Production Date</u> | <u>Gas Flare</u> |
|----------------------|------------------------|------------------|
| Raider Fed Com CTB 1 | 11/12/2023             | 187 mcf          |

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**District III**  
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**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 287061

DEFINITIONS

|                                                                                                   |                                                        |
|---------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>Permian Resources Operating, LLC<br>1001 17th Street, Suite 1800<br>Denver, CO 80202 | OGRID:<br>372165                                       |
|                                                                                                   | Action Number:<br>287061                               |
|                                                                                                   | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

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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QUESTIONS

Action 287061

**QUESTIONS**

|                                                                                                   |                                                        |
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**QUESTIONS**

|                                                                                                                                                                                            |                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| <b>Prerequisites</b><br>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 Well                                                                                                                                                                              | Unavailable.                          |
| Incident Facility                                                                                                                                                                          | [fAPP2220951546] Raider Fed Com CTB 1 |

|                                                                                                                                                                                                                                                                                            |                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <b>Determination of Reporting Requirements</b><br>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                                                                                                                                                                                                                               | 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, minor 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                                                |

|                                                           |               |
|-----------------------------------------------------------|---------------|
| <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>Please provide the mole percent for the percentage questions in this group. |               |
| Methane (CH4) percentage                                                                                                                                    | 64            |
| 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                                                                                                | 11            |
| 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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Action 287061

**QUESTIONS (continued)**

|                                                                                                   |                                                        |
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|                                                                                                   | Action Number:<br>287061                               |
|                                                                                                   | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

**QUESTIONS**

| Date(s) and Time(s)                            |            |
|------------------------------------------------|------------|
| Date vent or flare was discovered or commenced | 11/12/2023 |
| 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                                          | Not answered.                                                                                                                    |
| Natural Gas Flared (Mcf) Details                                          | Cause: Pipeline Quality Specifications   Tank (Any)   Natural Gas Flared   Released: 187 Mcf   Recovered: 0 Mcf   Lost: 187 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 | Not answered. |
| 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                                                      | VRU is running but O2 levels are high, so gas is diverted to MP Flare                    |
| Steps taken to limit the duration and magnitude of vent or flare                                                                 | Open valves to divert gas to a second midstream company to relive 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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ACKNOWLEDGMENTS

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**ACKNOWLEDGMENTS**

|                                     |                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be a <b>complete</b> C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.                                                                                      |
| <input checked="" type="checkbox"/> | I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to this operator) to track any C-129 forms, pursuant to 19.15.27.7 and 19.15.28.8 NMAC and understand that this submission meets the notification requirements of Paragraph (1) of Subsection G and F respectively. |
| <input checked="" type="checkbox"/> | I hereby certify the statements in this 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 287061

CONDITIONS

|                                                                                                   |                                                        |
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|                                                                                                   | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

CONDITIONS

| Created By   | Condition                                                                                                                                                                          | Condition Date |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| chcentennial | If the information provided in this report requires an amendment, submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event. | 11/20/2023     |