

**ARMSTRONG GAS LABS, INC.**

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

**GAS ANALYSIS REPORT**

Analysis No.: 211107  
 Customer: Centennial

| <u>Component</u> | <u>Mol. %</u> | (Ideal)<br><u>BTU</u> | (Ideal)<br><u>SG</u> | (Real)<br><u>GPM</u> |
|------------------|---------------|-----------------------|----------------------|----------------------|
| Nitrogen         | 1.9401        | 0.000                 | 0.019                |                      |
| Methane          | 78.5105       | 790.474               | 0.435                |                      |
| CO2              | 3.3377        | 0.000                 | 0.051                |                      |
| Ethane           | 8.3342        | 147.029               | 0.087                | 2.224                |
| H2S              | 0.0100        | 0.000                 | 0.000                |                      |
| Propane          | 4.2799        | 107.349               | 0.065                | 1.176                |
| Iso-Butane       | 0.6426        | 20.831                | 0.013                | 0.210                |
| Butane           | 1.4675        | 47.724                | 0.029                | 0.462                |
| Iso-Pentane      | 0.4382        | 17.477                | 0.011                | 0.160                |
| Pentane          | 0.3987        | 15.933                | 0.010                | 0.144                |
| Hexanes C6+      | 0.6406        | 32.755                | 0.021                | 0.279                |
| Hydrogen         | N/A           |                       |                      |                      |
| Helium           | N/A           |                       |                      |                      |
| Oxygen           | N/A           |                       |                      |                      |
| CO               | N/A           |                       |                      |                      |
| Totals           | 100.0000      | 1179.573              | 0.740                | 4.655                |

**Producer:** Centennial  
**Well / Sta. Name:** Winnebago 503H  
**Sta. No.:** 3561  
**Formation:**  
**Field:** New Mexico  
**County:**  
**API Number:** 3002546403

**Spot / Composite:** SP  
 Date / Time On:  
 Date / Time Off: 05/22/21  
 Date to Lab: 05/24/21  
 Date Analyzed: 05/26/21  
 Effective Date:

Sample Press. (PSIG): 90  
 Line Press. (PSIG): 90  
 Sample Temp. (F): 78  
 Fl. Gas Temp. (F): 78  
 Amb. Temp. (F): 68

Del. To:  
 Sampled By: JL  
 Cylinder No.: AGL-819

**Field H2O (#/mm):**

Field H2S (PPM): 100.0  
 Field H2S (Grains): 6.29

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

Z Factor (Dry): 0.9965547

Z Factor (Act.): 0.9965547

Dry BTU w/ H2S: 1183.71

Sat BTU w/ H2S: 1163.44

As Del. BTU w/ H2S: 1183.71

**Dry BTU W/O H2S (Real): 1183.65****Sat. BTU W/O H2S (Real): 1163.38****H2O (# / mmcf): 0.0****AS DEL. BTU W/O H2S (Real): 1183.65***BTU Calc: Dry***Sp. Gravity (Real): 0.7422**

Field Gravity:

Lab Gravitometer:

**GPM Ethane+ (Real): 4.655****GPM Propane+ (Real): 2.431****GPM IC5+ (Real): 0.583**

GPA 2145 / 2172

**Fld. Remarks: FLOW RATE 1250****Lab Remarks:**

**\*Preliminary Production Data\***

| LeaseNumber | Wellname                     | ProductionDate | Gas Flare |
|-------------|------------------------------|----------------|-----------|
| 326135      | Winnebago 30 State Com #503H | 6/16/2021      | 0         |
| 326135      | Winnebago 30 State Com #503H | 6/15/2021      | 0         |
| 326135      | Winnebago 30 State Com #503H | 6/14/2021      | 0         |
| 326135      | Winnebago 30 State Com #503H | 6/13/2021      | 0         |
| 326135      | Winnebago 30 State Com #503H | 6/12/2021      | 0         |
| 326135      | Winnebago 30 State Com #503H | 6/11/2021      | 0         |
| 326135      | Winnebago 30 State Com #503H | 6/10/2021      | 194.95    |
| 326135      | Winnebago 30 State Com #503H | 6/9/2021       | 0         |

**District I**

1625 N. French Dr., Hobbs, NM 88240  
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**District II**

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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 33231

**QUESTIONS**

|                                                                                                      |                                                        |
|------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>CENTENNIAL RESOURCE PRODUCTION, LLC<br>1001 17th Street, Suite 1800<br>Denver, CO 80202 | OGRID:<br>372165                                       |
|                                                                                                      | Action Number:<br>33231                                |
|                                                                                                      | 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                                                                                                                                                                  | No                                            |
| Is this considered a submission for a notification of a major venting or flaring                                                                                                                                                                                                         | Yes, minor venting or flaring of natural gas. |
| <b>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 19.13.29.7 NMAC</b>                                                                                        |                                               |
| 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 | Not answered. |
| Facility Type         | Not answered. |

**Equipment Involved**

|                                                           |                                                                                                                                                     |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Primary Equipment Involved                                | Gas Compressor Station                                                                                                                              |
| Additional details for Equipment Involved. Please specify | This flare was caused by High Line pressure due to Lucid taking down a compressor to perform Preventative Maintenance that we were NOT notified on. |

**Representative Compositional Analysis of Vented or Flared Natural Gas**

*Please provide the mole percent for the percentage questions in this group.*

|                                                                                                                                      |               |
|--------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Methane (CH4) percentage                                                                                                             | 79            |
| Nitrogen (N2) percentage, if greater than one percent                                                                                | 2             |
| Hydrogen Sulfide (H2S) PPM, rounded up                                                                                               | 0             |
| Carbon Dioxide (CO2) percentage, if greater than one percent                                                                         | 3             |
| Oxygen (O2) percentage, if greater than one percent                                                                                  | 0             |
| <b>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</b> |               |
| 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                                 | 06/10/2021 |
| Time venting or flaring was discovered or commenced                                 | 08:30 AM   |
| Is the venting or flaring event complete                                            | Yes        |
| Date venting or flaring was terminated                                              | 06/10/2021 |
| Time venting or flaring was terminated                                              | 12:30 PM   |
| Total duration of venting or flaring in hours, if venting or flaring has terminated | 4          |
| Longest duration of cumulative hours within any 24-hour period during this event    | 4          |

**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   Gas Compressor Station   Natural Gas Flared   Spilled: 195 Mcf   Recovered: 0 Mcf   Lost: 195 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                                                    | This flare was caused by High Line pressure due to Lucid taking down a compressor to perform Preventative Maintenance that we were NOT notified on. |
| Steps taken to limit the duration and magnitude of venting or flaring                                                          | We contacted Lucid to see what was causing the high line pressure.                                                                                  |
| Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring                                         | Lucid will have to give us notice when they are performing preventative maintenance.                                                                |

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CONDITIONS  
  
Action 33231

CONDITIONS

|                                                                                                      |                                                        |
|------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>CENTENNIAL RESOURCE PRODUCTION, LLC<br>1001 17th Street, Suite 1800<br>Denver, CO 80202 | OGRID:<br>372165                                       |
|                                                                                                      | Action Number:<br>33231                                |
|                                                                                                      | 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. | 6/22/2021      |