



## Certificate of Analysis

Number: 6030-21050241-002A

Artesia Laboratory

200 E Main St.

Artesia, NM 88210

Phone 575-746-3481

Redwood  
Redwood  
4910 N. Midkiff Rd.  
Midland, TX 79705

May 26, 2021

Station Name: Hawk 8K Fed  
Station Number: 75141-00  
Station Location: Redwood  
Sample Point: Meter run  
Instrument: 70104251 (Inficon GC-MicroFusion)  
Last Inst. Cal.: 05/18/2021 0:00 AM  
Analyzed: 05/26/2021 07:22:42 by KNF

Sampled By: Javier Lazo  
Sample Of: Gas Spot  
Sample Date: 05/24/2021  
Sample Conditions: 44 psig, @ 105 °F Ambient: 80 °F  
Effective Date: 05/24/2021  
Method: GPA-2261M  
Cylinder No: 1111-003911

## Analytical Data

| Components     | Un-normalized<br>Mol % | Mol. %    | Wt. %   | GPM at<br>14.696 psia |
|----------------|------------------------|-----------|---------|-----------------------|
| Nitrogen       | 1.108                  | 1.11924   | 1.210   |                       |
| Carbon Dioxide | 2.221                  | 2.24413   | 3.810   |                       |
| Methane        | 63.067                 | 63.72963  | 39.442  |                       |
| Ethane         | 16.346                 | 16.51802  | 19.162  | 4.431                 |
| Propane        | 8.499                  | 8.58778   | 14.610  | 2.373                 |
| Iso-Butane     | 1.182                  | 1.19422   | 2.678   | 0.392                 |
| n-Butane       | 2.809                  | 2.83800   | 6.364   | 0.898                 |
| Iso-Pentane    | 0.769                  | 0.77667   | 2.162   | 0.285                 |
| n-Pentane      | 0.776                  | 0.78456   | 2.184   | 0.285                 |
| Hexanes        | 0.619                  | 0.62530   | 2.079   | 0.258                 |
| Heptanes       | 1.327                  | 1.34074   | 5.183   | 0.621                 |
| Octanes        | 0.146                  | 0.14794   | 0.652   | 0.076                 |
| Nonanes Plus   | 0.093                  | 0.09377   | 0.464   | 0.053                 |
|                | 98.962                 | 100.00000 | 100.000 | 9.672                 |

## Calculated Physical Properties

## Total

## C9+

Calculated Molecular Weight

25.92

128.26

Compressibility Factor

0.9943

Relative Density Real Gas

0.8997

4.4283

## GPA 2172 Calculation:

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

Real Gas Dry BTU

1473.7

6996.3

Water Sat. Gas Base BTU

1448.6

6874.3

Ideal, Gross HV - Dry at 14.696 psia

1465.3

6996.3

Ideal, Gross HV - Wet

1439.8

6874.3

Comments: H2S Field Content 2.2 %

Mcf/day 555

Report generated by: Eric Ramirez

Quality Assurance:

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



# Daily Gas Entry Detail Listing

| Date           | MCF      | Calc<br>MCF/Day  | Energy | BTU<br>Factor | Flow<br>Press | Flow Temp | Base<br>Press | Remarks |
|----------------|----------|------------------|--------|---------------|---------------|-----------|---------------|---------|
| GasMtr         | GM000036 | Hawk 8 Flare Mtr |        |               |               |           |               |         |
| 06/22/2022     | 113.00   | 113.00           | 113.00 | 1.0000        | 13.000        | 60.00     | 14.73         |         |
| Report Totals: | 113.00   | 113.00           |        |               |               |           |               |         |

**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 120632

DEFINITIONS

|                                                                        |                                                               |
|------------------------------------------------------------------------|---------------------------------------------------------------|
| Operator:<br>Redwood Operating LLC<br>PO Box 1370<br>Artesia, NM 88210 | OGRID:<br>330211                                              |
|                                                                        | Action Number:<br>120632                                      |
|                                                                        | 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 120632

**QUESTIONS**

|                                                                        |                                                               |
|------------------------------------------------------------------------|---------------------------------------------------------------|
| Operator:<br>Redwood Operating LLC<br>PO Box 1370<br>Artesia, NM 88210 | OGRID:<br>330211                                              |
|                                                                        | Action Number:<br>120632                                      |
|                                                                        | Action Type:<br>[C-129] Amend Venting and/or Flaring (C-129A) |

**QUESTIONS**

|                                                                                                                                                                                                   |                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| <b>Prerequisites</b>                                                                                                                                                                              |                                |
| 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                                                                                                                                                                                 | [330211] Redwood Operating LLC |
| Incident Type                                                                                                                                                                                     | Flare                          |
| Incident Status                                                                                                                                                                                   | Closure Not Approved           |
| Incident Well                                                                                                                                                                                     | Not answered.                  |
| Incident Facility                                                                                                                                                                                 | [fAPP2205440656] Hawk 8/17 CTB |
| 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                                                                                                                                                                                 | 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 <b>at least 50 MCF</b> 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                                | Not answered. |
| 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                                                                                                      | 64            |
| 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. |

**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 120632

QUESTIONS (continued)

|                                                                            |                                                                   |
|----------------------------------------------------------------------------|-------------------------------------------------------------------|
| Operator:<br><br>Redwood Operating LLC<br>PO Box 1370<br>Artesia, NM 88210 | OGRID:<br><br>330211                                              |
|                                                                            | Action Number:<br><br>120632                                      |
|                                                                            | Action Type:<br><br>[C-129] Amend Venting and/or Flaring (C-129A) |

QUESTIONS

| Date(s) and Time(s)                            |            |
|------------------------------------------------|------------|
| Date vent or flare was discovered or commenced | 06/22/2022 |
| Time vent or flare was discovered or commenced | 10:00 AM   |
| Time vent or flare was terminated              | 03:00 PM   |
| Cumulative hours during this event             | 8          |

| 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: 113 Mcf   Recovered: 0 Mcf   Lost: 113 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            | Yes                    |
| Was notification of downstream activity received by this operator | Yes                    |
| Downstream OGRID that should have notified this operator          | [270047] DCP MIDSTREAM |
| Date notified of downstream activity requiring this vent or flare | 06/22/2022             |
| Time notified of downstream activity requiring this vent or flare | 06:00 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                                                     | DCP gave us an emergency notification with an estimated time frame of 8hrs. Redwood flared for 8hours and DCP was unable to fix the emergency situation within the 8 hour time frame. So Redwood shut-in and turned off producing wells. |
| Steps taken to limit the duration and magnitude of vent or flare                                                                | beyond our control                                                                                                                                                                                                                       |
| Corrective actions taken to eliminate the cause and reoccurrence of vent or flare                                               | Shut in production                                                                                                                                                                                                                       |

**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 120632

**ACKNOWLEDGMENTS**

|                                                                        |                                               |
|------------------------------------------------------------------------|-----------------------------------------------|
| Operator:<br>Redwood Operating LLC<br>PO Box 1370<br>Artesia, NM 88210 | OGRID:                                        |
|                                                                        | 330211                                        |
|                                                                        | Action Number:                                |
|                                                                        | 120632                                        |
|                                                                        | Action Type:                                  |
|                                                                        | [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 120632

CONDITIONS

|                                                                        |                                                               |
|------------------------------------------------------------------------|---------------------------------------------------------------|
| Operator:<br>Redwood Operating LLC<br>PO Box 1370<br>Artesia, NM 88210 | OGRID:<br>330211                                              |
|                                                                        | Action Number:<br>120632                                      |
|                                                                        | Action Type:<br>[C-129] Amend Venting and/or Flaring (C-129A) |

CONDITIONS

| Created By | Condition                                                                                                                                                                                  | Condition Date |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| dweaver    | 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. | 6/27/2022      |