# Certificate of Analysis

Number: 6030-21110287-004A

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

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

Dec. 06, 2021

| | | | |
|---|---|---|---|
| Station Name: | Eagle 35 Satellite Battery | Sampled By: | Nathan Payne |
| Station Number: | 720120-00 | Sample Of: | Gas Spot |
| Station Location: | Redwood | Sample Date: | 11/24/2021 |
| Sample Point: | Meter run | Sample Conditions: | 74 psig, @ 75 °F Ambient: 70 °F |
| Instrument: | 6030_GC6 (Inficon GC-3000 Micro) | Effective Date: | 11/24/2021 |
| Last Inst. Cal.: | 11/30/2021 0:00 AM | Method: | GPA-2261M |
| Analyzed: | 12/06/2021 07:22:05 by ERG | Cylinder No: | 5030-03463 |

## Analytical Data

| Components | Un-normalized Mol % | Mol. % | Wt. % | GPM at 14.696 psia | | |
|---|---|---|---|---|---|---|
| Hydrogen Sulfide | 0.000 | 1.00000 | 1.363 | | GPM TOTAL C2+ | 8.673 |
| Nitrogen | 3.860 | 3.77510 | 4.228 | | GPM TOTAL C3+ | 4.374 |
| Methane | 64.715 | 63.29795 | 40.596 | | GPM TOTAL iC5+ | 1.200 |
| Carbon Dioxide | 1.993 | 1.94927 | 3.430 | | | |
| Ethane | 16.396 | 16.03664 | 19.278 | 4.299 | | |
| Propane | 7.991 | 7.81644 | 13.780 | 2.159 | | |
| Iso-butane | 0.965 | 0.94348 | 2.192 | 0.309 | | |
| n-Butane | 2.283 | 2.23282 | 5.188 | 0.706 | | |
| Iso-pentane | 0.600 | 0.58647 | 1.692 | 0.215 | | |
| n-Pentane | 0.664 | 0.64907 | 1.872 | 0.236 | | |
| Hexanes Plus | 1.751 | 1.71276 | 6.381 | 0.749 | | |
| | 101.218 | 100.00000 | 100.000 | 8.673 | | |

| **Calculated Physical Properties** | **Total** | **C6+** |
|---|---|---|
| Relative Density Real Gas | 0.8676 | 3.2176 |
| Calculated Molecular Weight | 25.01 | 93.19 |
| Compressibility Factor | 0.9951 | |
| **GPA 2172 Calculation:** | | |
| **Calculated Gross BTU per ft³ @ 14.696 psia & 60°F** | | |
| Real Gas Dry BTU | 1374 | 5129 |
| Water Sat. Gas Base BTU | 1350 | 5040 |
| Ideal, Gross HV - Dry at 14.696 psia | 1367.0 | 5129.2 |
| Ideal, Gross HV - Wet | 1343.0 | 5039.7 |

**Comments:** H2S Field Content 1.0 %
Mcf/day 220

Hydrocarbon Laboratory Manager

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

**Eagle 35 Satt**

Location 32.791683 -104.252319

| Meter Type | Prod Date | Entry Date | Disposition | Product | UOM | Volume | Vol Rate | Energy Factor | Energy | Flow Temp | Gas Gravity | Base Temp | Base Press | Flow Press | Run Hours | Meter Begin | Meter End | Begin Date | End Date | Last Updated |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FLARE | 12/15/2021 | 12/16/2021 | FLARE | GAS | MCF | 613 | 613 | 1 | 613 | 60 | 0.6 | 60 | 14.73 | 0 | 24 | 14,984 | 15,597 | 12/15/2021 0:00 | 12/15/2021 0:00 | TJRODRIGUEZ |
| FLARE | 12/14/2021 | 12/15/2021 | FLARE | GAS | MCF | 617 | 617 | 1 | 617 | 60 | 0.6 | 60 | 14.73 | 0 | 24 | 14,367 | 14,984 | 12/14/2021 0:00 | 12/14/2021 0:00 | TJRODRIGUEZ |
| FLARE | 12/13/2021 | 12/14/2021 | FLARE | GAS | MCF | 556 | 556 | 1 | 556 | 60 | 0.6 | 60 | 14.73 | 27 | 24 | 13,811 | 14,367 | 12/13/2021 0:00 | 12/13/2021 0:00 | FABIANCABALLERO |

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**District IV**
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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

| | |
|---|---|
| Operator:<br>Redwood Operating LLC<br>PO Box 1370<br>Artesia, NM 882111370 | OGRID:<br>330211 |
| | Action Number:<br>67713 |
| | 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:

- this application's operator, hereinafter "this operator";
- venting and/or flaring, hereinafter "vent or flare";
- any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";
- the statements in (and/or attached to) this, hereinafter "the statements in this";
- and the past tense will be used in lieu of mixed past/present tense questions and statements.

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QUESTIONS

Action 67713

## QUESTIONS

| | |
|---|---|
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**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 Well | **[30-015-32837] EAGLE 35 F FEDERAL #012** |
| Incident Facility | *Not answered.* |

| **Determination of Reporting Requirements** | |
|---|---|
| *Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide addional 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, 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 **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 withing 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 | 63 |
| Nitrogen (N2) percentage, if greater than one percent | 4 |
| Hydrogen Sulfide (H2S) PPM, rounded up | 1 |
| Carbon Dioxide (C02) percentage, if greater than one percent | 2 |
| Oxygen (02) 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 Sufide (H2S) PPM quality requirement | *Not answered.* |
| Carbon Dioxide (C02) percentage quality requirement | *Not answered.* |
| Oxygen (02) percentage quality requirement | *Not answered.* |

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## QUESTIONS (continued)

| | |
|---|---|
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**QUESTIONS**

| **Date(s) and Time(s)** | |
|---|---|
| Date vent or flare was discovered or commenced | 12/15/2021 |
| Time vent or flare was discovered or commenced | 12:00 AM |
| Time vent or flare was terminated | 12:00 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: Midstream Scheduled Maintenance \| Pipeline (Any) \| Natural Gas Flared \| Released: 613 Mcf \| Recovered: 0 Mcf \| Lost: 613 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. | False |
| Please explain reason for why this event was beyond this operator's control | DCP scheduled Artesia Plant Maintenance |
| Steps taken to limit the duration and magnitude of vent or flare | During flaring Redwood only flares newer/higher oil production wells and shut in all smaller/older production |
| Corrective actions taken to eliminate the cause and reoccurrence of vent or flare | Flaring was caused from DCP scheduled Artesia Plant Maintenance unfortunately the only thing we can do is continue communication with midstream operator |

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## ACKNOWLEDGMENTS

| | |
|---|---|
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| | Action Number:<br>67713 |
| | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

**ACKNOWLEDGMENTS**

| | |
|---|---|
| ☑ | I acknowledge that I am authorized to submit a *Venting and/or Flaring* (C-129) report on behalf of this operator and understand that this report can be **a complete** C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC. |
| ☑ | 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. |
| ☑ | 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. |
| ☑ | 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. |
| ☑ | 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 67713

## CONDITIONS

| | |
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**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| dweaver | 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. | 12/17/2021 |