



## Certificate of Analysis

Number: 6030-22030017-001A

Artesia Laboratory

200 E Main St.

Artesia, NM 88210

Phone 575-746-3481

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

Mar. 03, 2022

Station Name: Simpson Battery  
Station Number: 67733039  
Station Location: Redwood  
Sample Point: Meter Run  
Instrument: 70142339 (Inficon GC-MicroFusion)  
Last Inst. Cal.: 02/28/2022 0:00 AM  
Analyzed: 03/03/2022 07:52:41 by ERG

Sampled By: NP  
Sample Of: Gas Spot  
Sample Date: 02/18/2022 03:00  
Sample Conditions: 70 psig, @ 71 °F Ambient: 67 °F  
Effective Date: 02/18/2022 03:00  
Method: GPA-2261M  
Cylinder No: 5030-03019

## Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia	
Hydrogen Sulfide	0.000	0.50000	0.677		GPM TOTAL C2+ 8.888
Nitrogen	1.577	1.57837	1.755		GPM TOTAL C3+ 5.012
Methane	65.845	65.90646	41.976		GPM TOTAL iC5+ 1.368
Carbon Dioxide	1.637	1.63833	2.862		
Ethane	14.439	14.45288	17.253	3.876	
Propane	8.247	8.25500	14.451	2.280	
Iso-butane	1.370	1.37078	3.163	0.450	
n-Butane	2.890	2.89220	6.674	0.914	
Iso-pentane	0.815	0.81586	2.337	0.299	
n-Pentane	0.873	0.87422	2.504	0.318	
Hexanes Plus	1.714	1.71590	6.348	0.751	
	99.407	100.00000	100.000	8.888	

## Calculated Physical Properties

	Total	C6+
Relative Density Real Gas	0.8740	3.2176
Calculated Molecular Weight	25.19	93.19
Compressibility Factor	0.9947	

## GPA 2172 Calculation:

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

Real Gas Dry BTU	1434	5129
Water Sat. Gas Base BTU	1410	5040
Ideal, Gross HV - Dry at 14.696 psia	1426.9	5129.2
Ideal, Gross HV - Wet	1402.0	5039.7

Comments: H2S Field Content 0.5 %  
Mcf/day 120

Hydrocarbon Laboratory Manager

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

Simpson 15 A 1 CTB  
Facility ID: fAPP2205950235  
Location 32.75469 -104.35988 D-14-18S-26E 175 FNL 375 FWL

Reference ID	Prod Date	Entry Date	Disposition	Product	UOM	Volume	Calculated Vol*14.73/15.025	Energy Factor	Flow Temp	Gas Gravity	Base Temp	Base Press	Flow Press	Run Hours	Meter Begin	Meter End	Begin Date	End Date	Last Updated
nAPP2205952016	2/27/2022	2/28/2022	FLARE	GAS	MCF	154	151	1	60	0.6	60	14.73	27	24	191,611	191,765	2/27/2022 0:00	2/27/2022 0:00	BENJAMINTIPTON
nAPP2206054778	2/28/2022	3/1/2022	FLARE	GAS	MCF	125	123	1	60	0.6	60	14.73	29	24	191,765	191,890	2/28/2022 0:00	2/28/2022 0:00	JEREMYMONTTOYA
nAPP2206054778	3/1/2022	3/2/2022	FLARE	GAS	MCF	22	22	1	60	0.6	60	14.73	66	24	191,890	191,956	3/1/2022 0:00	3/1/2022 0:00	JEREMYMONTTOYA

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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  
  
Action 88069

DEFINITIONS

Operator: Redwood Operating LLC PO Box 1370 Artesia, NM 88210	OGRID: 330211
	Action Number: 88069
	Action Type: [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:

- 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 88069

**QUESTIONS**

Operator: Redwood Operating LLC PO Box 1370 Artesia, NM 88210	OGRID: 330211
	Action Number: 88069
	Action Type: [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	[fAPP2205950235] Simpson 15 A 1 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	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 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	66
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	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.

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QUESTIONS, Page 2  
  
Action 88069

QUESTIONS (continued)

Operator:  Redwood Operating LLC PO Box 1370 Artesia, NM 88210	OGRID:  330211
	Action Number:  88069
	Action Type:  [C-129] Amend Venting and/or Flaring (C-129A)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	02/28/2022
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: Midstream Scheduled Maintenance   Pipeline (Any)   Natural Gas Flared   Released: 123 Mcf   Recovered: 0 Mcf   Lost: 123 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	Not answered.
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 Kristina Booster Maintenance, unfortunately the only thing we can do is communication with midstream operator

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ACKNOWLEDGMENTS

Action 88069

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	330211
	Action Number:
	88069
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.

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CONDITIONS

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	Action Number: 88069
	Action Type: [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.	3/9/2022