

Certificate of Analysis

Number: 6030-21120207-003A

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

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

Station Name: Kaiser #2 Station Number: 700323-00 Station Location: Redwood Sample Point: Meter run

Instrument:

Last Inst. Cal.: 12/13/2021 0:00 AM

Analyzed:

70142339 (Inficon GC-MicroFusion)

12/20/2021 10:48:16 by ERG

Sampled By: Sample Of: Sample Date: Michael Mirabal Gas Spot

Dec. 20, 2021

12/18/2021 08:21

Effective Date: Method:

Cylinder No:

Sample Conditions: 60 psig, @ 45 °F Ambient: 37 °F 12/18/2021 08:21

GPA-2261M 5030-02166

### **Analytical Data**

Components l	Jn-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia	
Hydrogen Sulfide	NIL	2.00000	2.822		
Nitrogen	1,263	1.25065	1.450		
Carbon Dioxide	2.770	2,74355	4.998		
Methane	67.766	67.11383	44.568		
Ethane	15.042	14.89718	18.543	3.993	3
Propane	6.785	6.71952	12.266	1.855	5
Iso-Butane	0.868	0.85915	2.067	0.282	2
n-Butane	2.035	2.01572	4.850	0.637	7
Iso-Pentane	0.570	0.56412	1.685	0.207	7
n-Pentane	0.618	0.61186	1.827	0.222	2
Hexanes	0.517	0.51203	1.827	0.211	1
Heptanes	0.507	0.50183	2.082	0.232	2
Octanes	0.179	0.17748	0.839	0.091	1
Nonanes Plus	0.033	0.03308	0.176	0.019	9
	98.953	100.00000	100.000	7.749	9.
Calculated Physical Pro		Total		C9+	
Calculated Molecular We	eight	24.16	i	128.26	
Compressibility Factor		0.9953			
Relative Density Real Ga		0.8377	•	4.4283	
GPA 2172 Calculation:					
Calculated Gross BTU	per ft³ @ 14.696 բ	osia & 60°F			
Real Gas Dry BTU		1335.7		6996.3	
Water Sat. Gas Base BT		1312.8		6874.3	
Ideal, Gross HV - Dry at	14.696 psia	1329.5		6996.3	
Ideal, Gross HV - Wet		1306.0	)	6874.3	
Comments: H2S Field	Content 2 %				

Mcf/day 79

Hydrocarbon Laboratory Manager

Quality Assurance:

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

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#### Kaiser CTB

Facility ID: fAPP2205450362

Location 32.7525406 -104.3111496 A-18-18S-27E 890 FNL 625 FEL

							Calculated	LIICIBY	110**	Gu.	, ,	usc	110**							
Reference ID	Prod Date	Entry Date	Disposition	Product	UOM	Volume	Vol*14.73/15.025	Factor	Temp	Gra	avity T	emp	Base Press Press	F	Run Hours Meter Beg	n Meter End	l B	Begin Date	End Date	Last Updated
nAPP2205928478	2/27/2022	2/28/20	022 FLARE	GAS	MCF	43	42		1	60	0.6	60	14.73	63	24	150	193	2/27/2022 0:00	2/27/2022	0:00 DAKOTABOLEN
nAPP2206051448	2/28/2022	3/1/20	022 FLARE	GAS	MCF	52	51		1	60	0.6	60	14.73	63	24	193	245	2/28/2022 0:00	2/28/2022	0:00 DAKOTABOLEN
nAPP2206053171	3/1/2022	3/2/20	022 FLARE	GAS	MCF	14	14		1	60	0.6	60	14.73	63	24	245	0	3/1/2022 0:00	3/1/2022	0:00 JAYSONSHANNON

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

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 87977

#### **DEFINITIONS**

Operator:	OGRID:
Redwood Operating LLC	330211
PO Box 1370	Action Number:
Artesia, NM 88210	87977
	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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# **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS

Action 87977

Q	UESTIONS
Operator:	OGRID:
Redwood Operating LLC PO Box 1370	330211 Action Number:
Artesia, NM 88210	87977
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)
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 Operator	[330211] Redwood Operating LLC
Incident Type	Flare
Incident Status	Closure Not Approved
Incident Well	Not answered.
Incident Facility	[fAPP2205450362] Kaiser CTB
Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section	on) that are assigned to your current operator can be amended with this C-129A application.
Determination of Departing Deminary	
Determination of Reporting Requirements	
Answer all questions that apply. The Reason(s) statements are calculated based on your answers at 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	INO .
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 v	enting 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	No
watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water	
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	No
existence	
Equipment Involved	
	Γ
Primary Equipment Involved	Not answered.
Additional data its fan Environant Invalved Places and its	
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	67
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	2
Carbon Dioxide (C02) percentage, if greater than one percent	3
Oxygen (02) percentage, if greater than one percent	0
70 ( 71	1 .
If you are venting and/or flaring because of Pipeline Specification, please provide the required spec	I
Methane (CH4) percentage quality requirement	Not answered.
Nitrogen (N2) percentage quality requirement	Not answered.
Hydrogen Sufide (H2S) PPM quality requirement	Not answered.

Not answered.

Not answered.

Oxygen (02) percentage quality requirement

Carbon Dioxide (C02) percentage quality requirement

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Phone:(505) 334-6178 Fax:(505) 334-6170

Operator:

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 87977

QUESTIONS (co	ontinued)
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OGRID:

Redwood Operating LLC	330211				
PO Box 1370	Action Number:				
Artesia, NM 88210	87977				
	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					
measured of Estimated volume of vented of 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: 51 Mcf   Recovered: 0 Mcf   Lost: 51 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.				
North and Florida Boundaries and Advide					
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.				

enting 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					

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				

Action 87977

ACKNOWLEDGMENTS

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### **ACKNOWLEDGMENTS**

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

### **ACKNOWLEDGMENTS**

$\overline{\lor}$	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.
~	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.
<b>~</b>	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.
✓	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 87977

### **CONDITIONS**

Operator:	OGRID:
Redwood Operating LLC	330211
PO Box 1370	Action Number:
Artesia, NM 88210	87977
	Action Type:
	[C-129] Amend Venting and/or Flaring (C-129A)

### CONDITIONS

Created By		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