

Certificate of Analysis Number: 6030-21070076-001A

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

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

July 13, 2021

Station Name: Logan 35 Fed #9 Station Number: 700338-00 Station Location: Redwood

Sample Point: Meter run

Instrument: Last Inst. Cal.: 07/08/2021 0:00 AM

Analyzed:

70104124 (Inficon GC-MicroFusion)

07/12/2021 14:38:50 by KJM

Sampled By:

Javier Lazo

Sample Of:

Gas Spot

Sample Date: 07/09/2021 11:06

Effective Date:

Sample Conditions: 42 psia, @ 98 °F Ambient: 80 °F 07/09/2021 11:06

Method: Cylinder No: GPA-2261M

5030-01326

### **Analytical Data**

Components Un-nor	malized Mol %	Mol. %	Wt. %	GPM at 14.696 psia
Nitrogen	1.591	1.63425	1.736	
Carbon Dioxide	2.038	2.09325	3.493	
Methane	59.710	61.34031	37.318	
Ethane	17.349	17.82303	20.323	4.782
Propane	9.565	9.82572	16.430	2.716
Iso-Butane	1.027	1.05495	2.325	0.346
n-Butane	2.510	2.57886	5.684	0.816
Iso-Pentane	0.649	0.66662	1.824	0.245
n-Pentane	0.699	0.71830	1.965	0.261
Hexanes	0.609	0.62512	2.043	0.258
Heptanes	0.751	0.77141	2.931	0.357
Octanes	0.538	0.55228	2.392	0.284
Nonanes Plus	0.308	0.31590	1.536	0.178
	97.344	100.00000	100.000	10.243
Calculated Physical Propertie	s	Total		C9+
Calculated Molecular Weight		26.37		128.26
Compressibility Factor		0.9941		
Relative Density Real Gas		0.9155		4.4283
GPA 2172 Calculation:				
Calculated Gross BTU per ft <sup>3</sup> (	@ 14.696 p	osla & 60°F		
Real Gas Dry BTU		1493.6		6996.3
Water Sat. Gas Base BTU		1468.3		6874.3
Ideal, Gross HV - Dry at 14.696	psia	1484.9		6996.3
Ideal, Gross HV - Wet		1459.0		6874.3

Comments: H2S Field Content 2 %

Mcf/day 612

Data reviewed by: Eric Ramirez, Analyst

Quality Assurance:

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

LOGAN 35 CTB

Location 32.78000 -104.25165

Meter Type	Prod Date E	Entry Date I	Disposition	Product	UOM	Volume	Vol Rate E	nergy 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	7/21/2021	7/22/2021 I	LARE	GAS	MCF	646	646		1 6	46 6	0	0.6	50 1	4.73	0 2	4 14,011	14,657	7/21/2021 0:00	7/21/2021 0	:00 MARCOMEJIA
FLARE	7/20/2021	7/21/2021	FLARE	GAS	MCF	720	720		1 7	20 6	0	0.6	50 1	4.73	0 2	4 13,291	14,011	7/20/2021 0:00	7/20/2021 0	:00 MARCOMEJIA

1366

<u>District I</u> 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**

QUESTIONS

Action 37907

#### **QUESTIONS**

Operator:	OGRID:
Redwood Operating LLC	330211
PO Box 1370	Action Number:
Artesia, NM 882111370	37907
	Action Type:
	[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 addional 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	Yes					
Is this considered a submission for a notification of a major venting or flaring	Yes, major venting or flaring of natural gas.					
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						
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 <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					

Unregistered Facility Site				
Please provide the facility details, if the venting or flaring occurred or is occuring at a facility that does not have an Facility ID (f#) yet.				
Facility or Site Name Logan 35 CTB				
Facility Type	Tank Battery - (TB)			

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	61					
Nitrogen (N2) percentage, if greater than one percent	2					
Hydrogen Sulfide (H2S) PPM, rounded up	0					
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.					

Date(s) and Time(s)		
Date venting or flaring was discovered or commenced	07/20/2021	
Time venting or flaring was discovered or commenced	05:00 PM	
Is the venting or flaring event complete	Yes	
Date venting or flaring was terminated	07/22/2021	
Time venting or flaring was terminated	11:00 AM	
Total duration of venting or flaring in hours, if venting or flaring has terminated	42	
Longest duration of cumulative hours within any 24-hour period 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	Not answered.					
Other Released Details	Cause: Midstream Scheduled Maintenance   Pipeline (Any)   Natural Gas Flared   Spilled: 1,366 Mcf   Recovered: 0 Mcf   Lost: 1,366 Mcf ]					
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	Not answered.					
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

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For this event, the operator could not have reasonably anticipated the current event and it was beyond the operator's control.	False
Please explain reason for why this event was beyond your operator's control	Not answered.
Steps taken to limit the duration and magnitude of venting or flaring	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 venting or flaring	Flaring was caused from DCP needing Redwood to curtail production to repair and maintenance, unfortunately the only thing we can do is continue communication with the Midstream Operator.

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CONDITIONS

Action 37907

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Redwood Operating LLC	330211
PO Box 1370	Action Number:
Artesia, NM 882111370	37907
	Action Type:
	[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.	7/26/2021