

# 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 Number: 75141-00 Station Location: Redwood Sample Point: Meter run

Instrument: Meter run 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 Mol %	Mol. %	Wt. %	GPM at 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 Rea	Relative Density Real Gas			4.4283	
GPA 2172 Calculation	on:				
Calculated Gross B	TU per ft³ @ 14.696 բ	osia & 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 - We	t	1439.8		6874.3	
Comments: H2S Fi	eld Content 2.2 %				

Mcf/day 555

Ex Ray

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.

HAWK 8/17 CTB

Location 32.75873 -104.30046

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	7/21/2021	7/22/202	1 FLARE	GAS	MCF	445	445		1 44	15 6	0	0.6	50 14.	73 1	3 24	4 74,965	75,410	7/21/2021 0:00	7/21/2021 0:0	00 COLEJOHNSON
FLARE	7/20/2021	7/21/202	1 FLARE	GAS	MCF	506	506		1 50	06 6	0	0.6	50 14.	73 1	8 24	4 74,459	74,965	7/20/2021 0:00	7/20/2021 0:0	00 COLEJOHNSON

951

<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 37973

#### **QUESTIONS**

Operator:	OGRID:
Redwood Operating LLC	330211
PO Box 1370	Action Number:
Artesia, NM 882111370	37973
	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 <b>at least 50 MCF</b> 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 Hawk 8/17 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	64					
Nitrogen (N2) percentage, if greater than one percent	1					
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: 951 Mcf   Recovered: 0 Mcf   Lost: 951 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

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

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PO Box 1370	Action Number:		
Artesia, NM 882111370	37973		
	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