

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

Station Name: Hawk 8K Fed Sampled By: Javier Lazo Station Number: 75141-00 Sample Of: Gas Station Location: Redwood Sample Date: 05/24/2021

Sample Point: Meter run

70104251 (Inficon GC-MicroFusion) Instrument: Last Inst. Cal.: 05/18/2021 0:00 AM

Analyzed: 05/26/2021 07:22:42 by KNF

Spot

Sample Conditions: 44 psig, @ 105 °F Ambient: 80 °F

May 26, 2021

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	I Properties	Total		C9+	
Calculated Molecular	r Weight	25.92		128.26	
Compressibility Factor	or	0.9943			
Relative Density Rea	al Gas	0.8997		4.4283	
GPA 2172 Calculation	on:				
Calculated Gross B	TU per ft³ @ 14.696 ¡	osia & 60°F			
Real Gas Dry BTU		1473.7		6996.3	
Water Sat. Gas Base		1448.6		6874.3	
Ideal, Gross HV - Dry	y at 14.696 psia	1465.3		6996.3	
Ideal, Gross HV - We	et	1439.8		6874.3	
Comments: H2S F	ield Content 2.2 %				

Mcf/day 555

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.

Received by OCD: 10/18/2021 11:55:18 AM

HAWK 8/17 CTB

Location	32.75873 -104	1.30046																		
Meter Type	Prod Date	Entry Date	Disposition	Product	UOM	Volume	Vol Rate Ene	rgy Factor	Energy	Flow Temp	Gas Gravity	Base Temp	Base Press	Flow Press	Run Hours	Meter Begin M	leter End	Begin Date	End Date	Last Updated
FLARE	10/15/2021	10/16/2021	L FLARE	GAS	MCF	464	464	1	46	4 464	(0.6	0 14.7	73 1	8 24	82,488	82,952	10/15/2021 0:	00 10/15/2021 C	:00 MARTYQUIROZ
FLARE	10/14/2021	10/15/2021	L FLARE	GAS	MCF	437	437	1	43	7 437	(0.6	0 14.	73 1	8 24	82,051	82,488	10/14/2021 0:	00 10/14/2021 0	:00 MARTYQUIROZ
FLARE	10/13/2021	10/14/2021	L FLARE	GAS	MCF	479	479	1	47	9 479	(0.6	0 14.	73 2	1 24	81,572	82,051	10/13/2021 0:	00 10/13/2021 0	:00 COLEJOHNSON
FLARE	10/12/2021	10/13/2021	L FLARE	GAS	MCF	457	457	1	45	7 457	(0.6	0 14.	73 1	8 24	81,115	81,572	10/12/2021 0:	00 10/12/2021 0	:00 COLEJOHNSON
FLARE	10/11/2021	10/12/2021	L FLARE	GAS	MCF	485	485	1	48	5 485	(0.6	0 14.	73 1	7 24	80,630	81,115	10/11/2021 0:	00 10/11/2021 0	:00 COLEJOHNSON
FLARE	10/10/2021	10/11/2021	L FLARE	GAS	MCF	370	370	1	37	0 370	(0.6	0 14.	73 2	1 24	80,260	80,630	10/10/2021 0:	00 10/10/2021 0	:00 COLEJOHNSON
FLARE	10/9/2021	10/10/2021	L FLARE	GAS	MCF	465	465	1	46	5 465	(0.6	0 14.	73 1	9 24	79,795	80,260	10/9/2021 0:	00 10/9/2021 C	:00 COLEJOHNSON
FLARE	10/8/2021	10/9/2021	L FLARE	GAS	MCF	405	405	1	40	5 405	(0.6	0 14.	73 1	8 24	79,390	79,795	10/8/2021 0:	00 10/8/2021 0	:00 COLEJOHNSON
FLARE	10/7/2021	10/8/2021	L FLARE	GAS	MCF	481	481	1	48	1 481	(0.6	0 14.	73 1	7 24	78,909	79,390	10/7/2021 0:	00 10/7/2021 C	:00 COLEJOHNSON
FLARE	10/6/2021	10/7/2021	L FLARE	GAS	MCF	464	464	1	46	4 464	(0.6	0 14.	73 1	8 24	78,445	78,909	10/6/2021 0:	00 10/6/2021 C	:00 COLEJOHNSON
FLARE	10/5/2021	10/6/2021	L FLARE	GAS	MCF	444	444	1	44	4 444	(0.6	0 14.	73 2	0 24	78,001	78,445	10/5/2021 0:	00 10/5/2021 0	:00 COLEJOHNSON
FLARE	10/4/2021	10/5/2021	L FLARE	GAS	MCF	449	449	1	44	9 449	(0.6	0 14.	73 1	8 24	77,552	78,001	10/4/2021 0:	00 10/4/2021 0	:00 COLEJOHNSON
FLARE	10/3/2021	10/4/2021	L FLARE	GAS	MCF	499	499	1	49	9 499	(0.6	0 14.	73 1	7 24	77,053	77,552	10/3/2021 0:	00 10/3/2021 0	:00 MARTYQUIROZ
FLARE	10/2/2021	10/3/2021	L FLARE	GAS	MCF	437	437	1	43	7 437	(0.6	0 14.	73 2	1 24	76,616	77,053	10/2/2021 0:	00 10/2/2021 0	:00 MARTYQUIROZ
FLARE	10/1/2021	10/2/2021	L FLARE	GAS	MCF	415	415	1	41	5 415	(0.6	50 14.	73 1	8 24	76,201	76,616	10/1/2021 0:	00 10/1/2021 C	:00 MARTYQUIROZ
FLARE	9/30/2021	10/1/2021	L FLARE	GAS	MCF	437	437	1	43	7 437	(0.6	50 14.	73 1	8 24	75,764	76,201	9/30/2021 0:	00 9/30/2021 0	:00 MARTYQUIROZ
FLARE	9/29/2021	9/30/2021	L FLARE	GAS	MCF	354	354	1	35	4 354	(0.6	0 14.7	73 1	9 24	75.410	75.764	9/29/2021 0:	00 9/29/2021 C	:00 COLEJOHNSON

7542

<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 56531

QUESTIONS

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	[30-015-29016] HAWK 8 N FEDERAL #007				
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 or is this venting and/or flaring caused by an emergency or malfunction	Yes					
Did or will this venting and/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 venting and/or flaring 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 v	renting and/or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.					
Was there or will there be at least 50 MCF of natural gas vented and/or flared during this event	Yes					
Did this venting and/or flaring 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 venting and/or flaring 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	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 and/or flaring was discovered or commenced	09/29/2021				
Time venting and/or flaring was discovered or commenced	04:00 PM				
Time venting and/or flaring was terminated	11:59 PM				
Cumulative hours during this event	400				

Measured or Estimated Volume of Vented or Flared Natural Gas			
Natural Gas Vented (Mcf) Details	Not answered.		

Natural Gas Flared (Mcf) Details	Cause: Midstream Emergency Maintenance Pipeline (Any) Natural Gas Flared Released: 7,542 Mcf Recovered: 0 Mcf Lost: 7,542 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 or is this venting and/or flaring a result of downstream activity	No			
Was notification of downstream activity received by you or your operator	Not answered.			
Downstream OGRID that should have notified you or your operator	Not answered.			
Date notified of downstream activity requiring this venting and/or flaring	Not answered.			
Time notified of downstream activity requiring this venting and/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 and/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 and/or flaring	Flaring was caused from DCP gas line leak. unfortunately the only thing we can do is continue communication with the midstream operator					

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**

CONDITIONS

Action 56531

CONDITIONS

Operator:	OGRID:
Redwood Operating LLC	330211
PO Box 1370	Action Number:
Artesia, NM 882111370	56531
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

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.	10/18/2021