

Certificate of Analysis

Number: 6030-21050271-002A

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

Redwood Redwood

4910 N. Midkiff Rd. Midland, TX 79705

Station Name: Brainard Gas Com #2

Station Number: 720189-00 Station Location: Redwood

Sample Point: Meter run

70104251 (Inficon GC-MicroFusion) Instrument:

Last Inst. Cal.: 05/18/2021 0:00 AM

05/28/2021 07:47:56 by KNF Analyzed:

May 28, 2021

Sampled By: Javier Lazo

Sample Of: Gas Spot Sample Date: 05/25/2021 02:00

Sample Conditions: 47 psig, @ 120 °F Ambient: 89 °F

05/25/2021 02:00 Effective Date: Method: GPA-2261M

Cylinder No: 1111-001203

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia	
Nitrogen	1.230	1.24817	1.497		
Carbon Dioxide	1.764	1.78928	3.370		
Methane	70.951	71.97619	49.423		
Ethane	13.499	13.69387	17.624	3.669	
Propane	5.953	6.03848	11.397	1.667	
Iso-Butane	0.731	0.74125	1.844	0.243	
n-Butane	1.760	1.78512	4.441	0.564	
Iso-Pentane	0.481	0.48795	1.507	0.179	
n-Pentane	0.520	0.52710	1.628	0.191	
Hexanes	0.437	0.44291	1.634	0.182	
Heptanes	1.036	1.05046	4.505	0.486	
Octanes	0.120	0.12173	0.595	0.062	
Nonanes Plus	0.096	0.09749	0.535	0.055	
	98.578	100.00000	100.000	7.298	
Calculated Physical	Properties	Total		C9+	
Calculated Molecular	Weight	23.36	6	128.26	
Compressibility Factor	or	0.9955	5		
Relative Density Rea	l Gas	0.8100)	4.4283	
GPA 2172 Calculation	on:				
Calculated Gross B	TU per ft ³ @ 14.696 p	osia & 60°F			
Real Gas Dry BTU	1343.6	5	6996.3		
Water Sat. Gas Base	1320.7	•	6874.3		
Ideal, Gross HV - Dry	/ at 14.696 psia	1337.5	j	6996.3	
Ideal, Gross HV - We		1314.2	<u>) </u>	6874.3	
Comments: H2S Fi	eld Content .4 %				

Mcf/day 391

Report generated by: Krystle Fitzwater

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

Quality Assurance:

	BRAINARD	/HIGGINS	CAHOON
--	----------	----------	--------

Location	32.766514 -104	4.348671																		
Meter Type	Prod Date E	Entry Date Dispo	sition Product	UOM	Volume	Vol Rate Energy F	actor Er	nergy	Flow Temp	Gas Gravity	Base Temp	Base Pr	ress Flo	ow Press	Run Hours	Meter Begin	Meter End	Begin Date	End Date	Last Updated
FLARE	7/21/2021	7/22/2021 FLARE	E GAS	MCF	240	240	1	240) 67	' (0.6	60	14.73	13	24	1 () 2	40 7/21/2021 0:0	0 7/21/2021 0	0:00 TJRODRIGUEZ
FLARE	7/20/2021	7/21/2021 FLARE	E GAS	MCF	361	361	1	361	L 67	' (0.6	60	14.73	13	24	1 () 3	61 7/20/2021 0:0	0 7/20/2021 0	0:00 TJRODRIGUEZ

601

<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 37952

QUESTIONS

Operator:		OGRID:
Redv	wood Operating LLC	330211
PO B	Box 1370	Action Number:
Artes	sia, NM 882111370	37952
		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 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							

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 Not answered.						
Facility Type	Not answered.					

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	72						
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: 601 Mcf Recovered: 0 Mcf Lost: 601 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.

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 37952

CONDITIONS

Operator:	OGRID:
Redwood Operating LLC	330211
PO Box 1370	Action Number:
Artesia, NM 882111370	37952
	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