



# Certificate of Analysis

Number: 2500-23010026-004A

**Greeley Laboratory**  
2881 S. 31st Ave  
Unit 6-8  
Greeley, CO 80631

Tony Walton  
Civitas Resources  
4301 Industrial Parkway  
Evans, CO 80620

Jan. 11, 2023

Station Name: NPF A-E-22 HC GPM  
Station Number: 68003987  
Station Location: NPF K-22 Pad  
Sample Point: Meter Tube Run  
Analyzed: 01/10/2023 12:45:35 by RHJ

Sampled By: Russ Fox  
Sample Of: Gas Spot  
Sample Date: 12/21/2022 14:15  
Sample Conditions: 91.21 psig, @ 50.58 °F  
Method: GPA-2261M  
Cylinder No: 2500-01507

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0001	NIL		GPM TOTAL C2+ 6.715
Nitrogen	0.4222	0.534		GPM TOTAL C3+ 2.835
Carbon Dioxide	2.4345	4.841		GPM TOTAL iC5+ 0.286
Methane	73.1957	53.055		
Ethane	14.4545	19.638	3.880	
Propane	5.8462	11.648	1.617	
Iso-butane	0.8433	2.215	0.277	
n-Butane	2.0714	5.440	0.655	
Iso-pentane	0.2273	0.741	0.083	
n-Pentane	0.2499	0.815	0.091	
Hexanes Plus	0.2549	1.073	0.112	
	100.0000	100.000	6.715	

<b>Calculated Physical Properties</b>	<b>Total</b>	<b>C6+</b>
Relative Density Real Gas	0.7669	3.2176
Calculated Molecular Weight	22.13	93.19
Compressibility Factor	0.9961	
<b>GPA 2172 Calculation:</b>		
<b>Calculated Gross BTU per ft<sup>3</sup> @ 14.73 psia &amp; 60°F</b>		
Real Gas Dry BTU	1277	5141
Water Sat. Gas Base BTU	1256	5052
<b>Comments:</b> H2S Field Content 1.25 ppm		

*Ryleigh Jacobs*

Data reviewed by: Ryleigh Jacobs, Laboratory Analyst

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