



# Certificate of Analysis

Number: 2500-23080081-006A

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

Tony Walton  
Civitas Resources  
4301 Industrial Parkway  
Evans, CO 80620

Aug. 10, 2023

Station Name: NP K31-O34-34HNB GPM  
Station Number: 68011405  
Station Location: NP T-27 Pad  
Sample Point: Meter Tube Run  
Analyzed: 08/10/2023 13:58:04 by SO

Sampled By: Russ Fox  
Sample Of: Gas Spot  
Sample Date: 08/02/2023 11:30  
Sample Conditions: 176.10 psig, @ 71.53 °F  
Method: GPA-2261M  
Cylinder No: 731

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0001	NIL		GPM TOTAL C2+ 7.800
Nitrogen	0.4244	0.505		GPM TOTAL C3+ 3.919
Carbon Dioxide	2.2756	4.253		GPM TOTAL iC5+ 0.798
Methane	70.0723	47.735		
Ethane	14.4508	18.452	3.881	
Propane	7.6197	14.268	2.108	
Iso-butane	0.8233	2.032	0.271	
n-Butane	2.3440	5.785	0.742	
Iso-pentane	0.4402	1.349	0.162	
n-Pentane	0.5724	1.754	0.208	
Hexanes Plus	0.9772	3.867	0.428	
	100.0000	100.000	7.800	

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8165	3.2176
Calculated Molecular Weight	23.55	93.19
Compressibility Factor	0.9954	
<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	1358	5141
Water Sat. Gas Base BTU	1335	5052
<b>Comments:</b> H2S Field Content 1.00 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.