



# Certificate of Analysis

Number: 2500-23090149-012A

Greeley Laboratory

2881 S. 31st Ave

Unit 6-8

Greeley, CO 80631

Tony Walton  
Civitas Resources  
4301 Industrial Parkway  
Evans, CO 80620

Sep. 22, 2023

Station Name: NPF 31-34-22 HNB GPM  
Station Number: 68004619  
Station Location: NPF K-22 Pad  
Sample Point: Meter Tube Run  
Analyzed: 09/22/2023 09:59:32 by SO

Sampled By: Russ Fox  
Sample Of: Gas Spot  
Sample Date: 09/06/2023 12:20  
Sample Conditions: 187.34 psig, @ 89.87 °F  
Method: GPA-2261M  
Cylinder No: 1584

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0002	NIL		GPM TOTAL C2+ 7.636
Nitrogen	0.3978	0.478		GPM TOTAL C3+ 3.766
Carbon Dioxide	2.3376	4.410		GPM TOTAL iC5+ 0.712
Methane	70.4954	48.479		
Ethane	14.4099	18.574	3.870	
Propane	7.4033	13.994	2.048	
Iso-butane	0.8160	2.033	0.268	
n-Butane	2.3301	5.805	0.738	
Iso-pentane	0.4829	1.493	0.177	
n-Pentane	0.6271	1.939	0.228	
Hexanes Plus	0.6997	2.795	0.307	
	100.0000	100.000	7.636	

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8088	3.2176
Calculated Molecular Weight	23.33	93.19
Compressibility Factor	0.9956	
<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	1345	5141
Water Sat. Gas Base BTU	1322	5052
<b>Comments:</b> H2S Field Content 1.50 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.