



# Certificate of Analysis

Number: 2500-23110031-002A

Greeley Laboratory

2881 S. 31st Ave

Unit 6-8

Greeley, CO 80631

Tony Walton  
Civitas Resources  
4301 Industrial Parkway  
Evans, CO 80620

Nov. 08, 2023

Station Name: ANT FED O34-K31-20HNB GPM  
Station Number: 68005066  
Station Location: ANT O-20 Pad  
Sample Point: Meter Tube Run  
Analyzed: 11/08/2023 09:42:43

Sampled By: Russ Fox  
Sample Of: Gas Spot  
Sample Date: 10/26/2023 15:00  
Sample Conditions: 177.60 psig, @ 79.26 °F  
Method: GPA-2261M  
Cylinder No: 1117

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0001	NIL		GPM TOTAL C2+
Nitrogen	0.5603	0.681		GPM TOTAL C3+
Carbon Dioxide	2.3251	4.442		GPM TOTAL iC5+
Methane	71.6063	49.869		
Ethane	13.3675	17.449	3.589	
Propane	7.5725	14.496	2.095	
Iso-butane	0.7597	1.917	0.250	
n-Butane	2.2241	5.612	0.704	
Iso-pentane	0.4166	1.305	0.153	
n-Pentane	0.5416	1.696	0.197	
Hexanes Plus	0.6262	2.533	0.274	
	100.0000	100.000	7.262	

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.7985	3.2176
Calculated Molecular Weight	23.04	93.19
Compressibility Factor	0.9957	

### GPA 2172 Calculation:

#### Calculated Gross BTU per ft<sup>3</sup> @ 14.73 psia & 60°F

Real Gas Dry BTU	1327	5141
Water Sat. Gas Base BTU	1304	5052

**Comments:** Reran Sample Confirmed GC Analysis  
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.