



# Certificate of Analysis

Number: 2500-21120127-004A

Greeley Laboratory

2881 S. 31st Ave

Unit 6-8

Greeley, CO 80631

Tony Walton  
Civitas Resources  
4301 Industrial Parkway  
Evans, CO 80620

Dec. 30, 2021

Station Name: AEF 4-62-15NW 0461CH2 Prd  
Station Number: 18797  
Station Location: AEF 4-62-15NW  
Sample Point: Tube  
Analyzed: 12/22/2021 11:39:47 by RGA

Sampled By: Wally Young  
Sample Of: Gas Spot  
Sample Date: 12/16/2021 08:56  
Sample Conditions: 105.97 psig, @ 90.54 °F  
Method: GPA-2261M  
Cylinder No: 2500-00860

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0002	NIL		GPM TOTAL C2+
Nitrogen	0.8101	0.909		GPM TOTAL C3+
Carbon Dioxide	2.3967	4.225		GPM TOTAL iC5+
Methane	68.2714	43.867		
Ethane	11.6113	13.984	3.121	
Propane	8.8116	15.562	2.440	
Iso-butane	1.0988	2.558	0.361	
n-Butane	3.9995	9.311	1.267	
Iso-pentane	0.8629	2.494	0.317	
n-Pentane	1.0532	3.043	0.384	
Hexanes Plus	1.0843	4.047	0.475	
	100.0000	100.000	8.365	

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8662	3.2176
Calculated Molecular Weight	24.97	93.19
Compressibility Factor	0.9949	

### GPA 2172 Calculation:

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

Real Gas Dry BTU	1426	5141
Water Sat. Gas Base BTU	1402	5052

Comments: H2S Field Content 2 ppm

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.