



# Certificate of Analysis

Number: 2500-21110047-001A

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

Tony Walton  
Civitas (formerly Bonanza Creek)  
4301 Industrial Parkway  
Evans, CO 80620

Nov. 11, 2021

Station Name: SNP 11-36-1 XRLNB GLM  
Station Number: 66010158  
Station Location: SNP F36  
Sample Point: Meter Run  
Analyzed: 11/11/2021 09:46:04 by RGA

Sampled By: Jaime Cervacio  
Sample Of: Gas Spot  
Sample Date: 10/28/2021 11:20  
Sample Conditions: 1035.05 psia, @ 55.9 °F  
Method: GPA-2261M  
Cylinder No: 2500-00693

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0003	NIL		GPM TOTAL C2+ 6.656
Nitrogen	0.4694	0.596		GPM TOTAL C3+ 2.849
Carbon Dioxide	2.2409	4.471		GPM TOTAL iC5+ 0.382
Methane	73.5589	53.504		
Ethane	14.1847	19.338	3.807	
Propane	6.3276	12.650	1.750	
Iso-butane	0.6244	1.645	0.205	
n-Butane	1.6176	4.263	0.512	
Iso-pentane	0.2761	0.903	0.101	
n-Pentane	0.3440	1.125	0.125	
Hexanes Plus	0.3561	1.505	0.156	
	100.0000	100.000	6.656	

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.7642	3.2176
Calculated Molecular Weight	22.06	93.19
Compressibility Factor	0.9961	

### GPA 2172 Calculation:

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

Real Gas Dry BTU	1277	5141
Water Sat. Gas Base BTU	1256	5052

**Comments:** H2S Field Content 2.5 ppm

Data reviewed by: Carson Souther, Laboratory Analyst

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