



# Certificate of Analysis

Number: 2500-21090156-001A

Greeley Laboratory

2881 S. 31st Ave

Unit 6-8

Greeley, CO 80631

Tony Walton  
Bonanza Creek  
4301 Industrial Parkway  
Evans, CO 80620

Sep. 29, 2021

Station Name: AEF 4-62-15NE 0560BH2 Inj  
Station Number: 19141\_GL  
Station Location: AEF 4-62-15NE  
Sample Point: Tube  
Analyzed: 09/29/2021 13:35:11 by RGA

Sampled By: Dani Jeffress  
Sample Of: Gas Spot  
Sample Date: 09/20/2021 10:00  
Sample Conditions: 982.73 psig, @ 102.70 °F  
Method: GPA-2261M  
Cylinder No: 2500-00601

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia		
Hydrogen Sulfide	0.0004	0.001		GPM TOTAL C2+	6.123
Nitrogen	0.9576	1.218		GPM TOTAL C3+	3.085
Carbon Dioxide	2.4209	4.838		GPM TOTAL iC5+	0.386
Methane	74.9367	54.584			
Ethane	11.3179	15.452	3.038		
Propane	6.9167	13.848	1.912		
Iso-butane	0.6296	1.662	0.207		
n-Butane	1.8317	4.834	0.580		
Iso-pentane	0.2930	0.960	0.108		
n-Pentane	0.3553	1.164	0.129		
Hexanes Plus	0.3402	1.439	0.149		
	100.0000	100.000	6.123		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.7631	3.2176
Calculated Molecular Weight	22.02	93.19
Compressibility Factor	0.9962	
<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	1263	5141
Water Sat. Gas Base BTU	1241	5052
<b>Comments:</b> H2S Field Content 4 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.