



# Certificate of Analysis

Number: 2500-21090131-004A

Greeley Laboratory

2881 S. 31st Ave

Unit 6-8

Greeley, CO 80631

Tony Walton  
Bonanza Creek  
4301 Industrial Parkway  
Evans, CO 80620

Sep. 24, 2021

Station Name: AEF 4-62-15NW 0461CH2 Prd  
Station Number: 18797  
Station Location: AEF 4-62-15NW  
Sample Point: Tube  
Analyzed: 09/24/2021 12:28:08 by RGA

Sampled By: Dani Jeffress  
Sample Of: Gas Spot  
Sample Date: 09/15/2021 11:30  
Sample Conditions: 104.06 psig, @ 117.08 °F  
Method: GPA-2261M  
Cylinder No: 2500-01886

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0004	0.001		GPM TOTAL C2+
Nitrogen	0.8372	1.004		GPM TOTAL C3+
Carbon Dioxide	2.4578	4.631		GPM TOTAL iC5+
Methane	71.8728	49.365		
Ethane	11.5621	14.884	3.105	
Propane	7.9352	14.980	2.195	
Iso-butane	0.8173	2.034	0.269	
n-Butane	2.6634	6.627	0.843	
Iso-pentane	0.4346	1.342	0.160	
n-Pentane	0.5880	1.816	0.214	
Hexanes Plus	0.8312	3.316	0.364	
	100.0000	100.000	7.150	

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8097	3.2176
Calculated Molecular Weight	23.36	93.19
Compressibility Factor	0.9956	

### GPA 2172 Calculation:

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

Real Gas Dry BTU	1336	5141
Water Sat. Gas Base BTU	1314	5052

Comments: 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.