



# Certificate of Analysis

Number: 2500-21100189-001A

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

Tony Walton  
Bonanza Creek  
4301 Industrial Parkway  
Evans, CO 80620

Nov. 01, 2021

Station Name: AEF 4-62-15 NE 0560BH2 Prd  
Station Number: 19141  
Station Location: AEF 4-62-15 NE  
Sample Point: Tube  
Analyzed: 11/01/2021 12:32:10 by RGA

Sampled By: Wally Young  
Sample Of: Gas Spot  
Sample Date: 10/26/2021 08:56  
Sample Conditions: 156.19 psig, @ 111.62 °F  
Method: GPA-2261M  
Cylinder No: 2500-00014

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0003	ND		GPM TOTAL C2+ 7.255
Nitrogen	0.8277	0.993		GPM TOTAL C3+ 4.115
Carbon Dioxide	2.4238	4.569		GPM TOTAL iC5+ 0.612
Methane	71.3712	49.044		
Ethane	11.6933	15.061	3.140	
Propane	8.4470	15.955	2.337	
Iso-butane	0.8664	2.157	0.285	
n-Butane	2.7818	6.926	0.881	
Iso-pentane	0.5101	1.576	0.187	
n-Pentane	0.6498	2.008	0.237	
Hexanes Plus	0.4286	1.711	0.188	
	100.0000	100.000	7.255	

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8093	3.2176
Calculated Molecular Weight	23.35	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	1337	5141
Water Sat. Gas Base BTU	1314	5052

Comments: H2S Field Content 3 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.