



# Certificate of Analysis

Number: 2500-21100200-002A

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

Tony Walton  
Bonanza Creek  
4301 Industrial Parkway  
Evans, CO 80620

Nov. 03, 2021

Station Name: ANT FED O34-K31-20HNB GPM  
Station Number: 68005066  
Station Location: ANT O-20 Pad  
Sample Point: Meter Tube Run  
Analyzed: 11/03/2021 12:49:00 by RGA

Sampled By: Russ Fox  
Sample Of: Gas Spot  
Sample Date: 10/20/2021 10:30  
Sample Conditions: 139.41 psig, @ 93.50 °F  
Method: GPA-2261M  
Cylinder No: 2500-00946

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0004	0.001		GPM TOTAL C2+ 7.295
Nitrogen	0.6149	0.745		GPM TOTAL C3+ 3.776
Carbon Dioxide	2.2554	4.292		GPM TOTAL iC5+ 0.649
Methane	71.5719	49.648		
Ethane	13.1037	17.038	3.519	
Propane	7.5125	14.324	2.078	
Iso-butane	0.8077	2.030	0.265	
n-Butane	2.4768	6.225	0.784	
Iso-pentane	0.4698	1.466	0.173	
n-Pentane	0.6059	1.890	0.221	
Hexanes Plus	0.5810	2.341	0.255	
	100.0000	100.000	7.295	

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8017	3.2176
Calculated Molecular Weight	23.13	93.19
Compressibility Factor	0.9957	
<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	1333	5141
Water Sat. Gas Base BTU	1310	5052
<b>Comments:</b> H2S Field Content 4.00 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.