



# Certificate of Analysis

Number: 2500-23080215-007A

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

Tony Walton  
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4301 Industrial Parkway  
Evans, CO 80620

Sep. 01, 2023

Station Name: SSH 21-8-17XRLN GPM  
Station Number: 68017949  
Station Location: SH J-5 Pad  
Sample Point: Meter Tube Run  
Analyzed: 09/01/2023 08:28:54 by SO

Sampled By: Paul Renslow  
Sample Of: Gas Spot  
Sample Date: 08/21/2023 14:00  
Sample Conditions: 242.86 psig, @ 126.02 °F  
Method: GPA-2261M  
Cylinder No: 186

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0002	NIL		GPM TOTAL C2+ 7.290
Nitrogen	0.7542	0.904		GPM TOTAL C3+ 4.022
Carbon Dioxide	2.0296	3.820		GPM TOTAL iC5+ 0.902
Methane	72.0357	49.422		
Ethane	12.1672	15.647	3.268	
Propane	7.5751	14.285	2.096	
Iso-butane	0.7799	1.939	0.256	
n-Butane	2.4263	6.031	0.768	
Iso-pentane	0.4529	1.397	0.166	
n-Pentane	0.5949	1.836	0.217	
Hexanes Plus	1.1840	4.719	0.519	
	100.0000	100.000	7.290	

<b>Calculated Physical Properties</b>	<b>Total</b>	<b>C6+</b>
Relative Density Real Gas	0.8107	3.2176
Calculated Molecular Weight	23.38	93.19
Compressibility Factor	0.9955	
<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	1350	5141
Water Sat. Gas Base BTU	1327	5052
<b>Comments:</b> H2S Field Content 2.0 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.