



# Certificate of Analysis

Number: 2500-22070191-001A

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

Tony Walton  
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4301 Industrial Parkway  
Evans, CO 80620

Aug. 03, 2022


Station Name: WF A-4-9 MRLNC GPM  
Station Number: 68011289  
Station Location: WF A-4 PAD  
Sample Point: Meter tube run  
Analyzed: 08/02/2022 15:11:09 by SO

Sampled By: Paul Renslow  
Sample Of: Gas Spot  
Sample Date: 07/18/2022 09:00  
Sample Conditions: 210.52 psig, @ 99.84 °F  
Method: GPA-2261M  
Cylinder No: 187

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0002	NIL		GPM TOTAL C2+
Nitrogen	0.3689	0.463		GPM TOTAL C3+
Carbon Dioxide	2.3155	4.565		GPM TOTAL iC5+
Methane	72.8012	52.323		
Ethane	14.2906	19.250	3.836	
Propane	6.6677	13.172	1.844	
Iso-butane	0.6777	1.765	0.223	
n-Butane	1.8006	4.688	0.570	
Iso-pentane	0.3447	1.114	0.127	
n-Pentane	0.4236	1.369	0.154	
Hexanes Plus	0.3093	1.291	0.135	
	100.0000	100.000	6.889	

<b>Calculated Physical Properties</b>	<b>Total</b>	<b>C6+</b>
Relative Density Real Gas	0.7735	3.2176
Calculated Molecular Weight	22.32	93.19
Compressibility Factor	0.9960	
<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	1292	5141
Water Sat. Gas Base BTU	1270	5052
<b>Comments:</b> H2S Field Content 2.0 ppm		

  
Data reviewed by: Matthew Loveley, Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.