



# Certificate of Analysis

Number: 2500-23030211-001A

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

Tony Walton  
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4301 Industrial Parkway  
Evans, CO 80620

Apr. 06, 2023

Station Name: NPF 31-34-22 HNB GPM  
Station Number: 68004619  
Station Location: NPF K-22 Pad  
Sample Point: Meter Tube Run  
Analyzed: 04/04/2023 12:30:01 by SO

Sampled By: Russ Fox  
Sample Of: Gas Spot  
Sample Date: 03/23/2023 11:35  
Sample Conditions: 129.00 psig, @ 91.58 °F  
Method: GPA-2261M  
Cylinder No: 833

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0002	NIL		GPM TOTAL C2+ 7.946
Nitrogen	0.3853	0.453		GPM TOTAL C3+ 4.045
Carbon Dioxide	2.3850	4.403		GPM TOTAL iC5+ 0.973
Methane	69.6998	46.908		
Ethane	14.5227	18.320	3.901	
Propane	7.4577	13.796	2.064	
Iso-butane	0.8313	2.027	0.273	
n-Butane	2.3222	5.662	0.735	
Iso-pentane	0.4592	1.390	0.169	
n-Pentane	0.6012	1.820	0.219	
Hexanes Plus	1.3354	5.221	0.585	
	100.0000	100.000	7.946	

<b>Calculated Physical Properties</b>	<b>Total</b>	<b>C6+</b>
Relative Density Real Gas	0.8266	3.2176
Calculated Molecular Weight	23.84	93.19
Compressibility Factor	0.9953	
<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	1372	5141
Water Sat. Gas Base BTU	1349	5052
<b>Comments:</b> H2S Field Content 1.50 ppm		

*Ryleigh Jacobs*

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.