



# Certificate of Analysis

Number: 2500-23010026-002A

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

Tony Walton  
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4301 Industrial Parkway  
Evans, CO 80620

Jan. 11, 2023

Station Name: NPF 31-34-22 HNB GPM  
Station Number: 68004619  
Station Location: NPF K-22 Pad  
Sample Point: Meter Tube Run  
Analyzed: 01/10/2023 12:13:27 by RHJ

Sampled By: Russ Fox  
Sample Of: Gas Spot  
Sample Date: 12/21/2022 11:45  
Sample Conditions: 98.31 psig, @ 50.6 °F  
Method: GPA-2261M  
Cylinder No: 2500-01263

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0002	NIL		GPM TOTAL C2+ 7.291
Nitrogen	0.4391	0.530		GPM TOTAL C3+ 3.717
Carbon Dioxide	2.3189	4.400		GPM TOTAL iC5+ 0.816
Methane	71.8731	49.709		
Ethane	13.3085	17.252	3.574	
Propane	6.6646	12.670	1.844	
Iso-butane	0.8318	2.084	0.273	
n-Butane	2.4778	6.209	0.784	
Iso-pentane	0.5733	1.783	0.211	
n-Pentane	0.7874	2.449	0.287	
Hexanes Plus	0.7253	2.914	0.318	
	100.0000	100.000	7.291	

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8041	3.2176
Calculated Molecular Weight	23.20	93.19
Compressibility Factor	0.9956	
<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	1338	5141
Water Sat. Gas Base BTU	1315	5052

**Comments:** H2S Field Content 2.00 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.