



# Certificate of Analysis

Number: 2500-22030155-010A

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

Tony Walton  
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4301 Industrial Parkway  
Evans, CO 80620

Mar. 23, 2022

Station Name: NPF 31-34-22 HNB GPM  
Station Number: 68004619  
Station Location: NPF K-22 Pad  
Sample Point: Meter Tube Run  
Analyzed: 03/23/2022 12:12:57 by SO

Sampled By: Russ Fox  
Sample Of: Gas Spot  
Sample Date: 03/11/2022 11:50  
Sample Conditions: 81.15 psig, @ 55.59 °F  
Method: GPA-2261M  
Cylinder No: 2500-00611

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0001	NIL		GPM TOTAL C2+ 7.559
Nitrogen	0.3694	0.444		GPM TOTAL C3+ 3.860
Carbon Dioxide	2.1871	4.126		GPM TOTAL iC5+ 0.752
Methane	71.0382	48.854		
Ethane	13.7725	17.753	3.699	
Propane	7.2935	13.787	2.018	
Iso-butane	0.8690	2.165	0.286	
n-Butane	2.5384	6.325	0.804	
Iso-pentane	0.5632	1.742	0.207	
n-Pentane	0.7353	2.274	0.268	
Hexanes Plus	0.6333	2.530	0.277	
	100.0000	100.000	7.559	

<b>Calculated Physical Properties</b>	<b>Total</b>	<b>C6+</b>
Relative Density Real Gas	0.8087	3.2176
Calculated Molecular Weight	23.33	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	1349	5141
Water Sat. Gas Base BTU	1326	5052
<b>Comments:</b> H2S Field Content 0.75 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.