



# Certificate of Analysis

Number: 2500-23070057-001A

Greeley Laboratory  
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Unit 6-8  
Greeley, CO 80631

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4301 Industrial Parkway  
Evans, CO 80620

July 17, 2023

Station Name: NPF 11-14-22 HNC GPM  
Station Number: 68003989  
Station Location: NPF K-22 Pad  
Sample Point: Meter Tube Run  
Analyzed: 07/13/2023 14:28:51 by SO

Sampled By: Russ Fox  
Sample Of: Gas Spot  
Sample Date: 06/22/2023 12:55  
Sample Conditions: 122.05 psig, @ 79.09 °F  
Method: GPA-2261M  
Cylinder No: 1295

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0002	NIL		GPM TOTAL C2+ 7.498
Nitrogen	0.3979	0.482		GPM TOTAL C3+ 3.610
Carbon Dioxide	2.3676	4.503		GPM TOTAL iC5+ 0.649
Methane	70.8872	49.141		
Ethane	14.4773	18.811	3.888	
Propane	7.3120	13.933	2.023	
Iso-butane	0.7918	1.989	0.260	
n-Butane	2.1432	5.383	0.678	
Iso-pentane	0.3832	1.195	0.141	
n-Pentane	0.4709	1.468	0.171	
Hexanes Plus	0.7687	3.095	0.337	
	100.0000	100.000	7.498	

<b>Calculated Physical Properties</b>	<b>Total</b>	<b>C6+</b>
Relative Density Real Gas	0.8022	3.2176
Calculated Molecular Weight	23.14	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	1334	5141
Water Sat. Gas Base BTU	1312	5052
<b>Comments:</b> H2S Field Content 1.50 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.