



# Certificate of Analysis

Number: 2500-24010031-006A

Greeley Laboratory  
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Unit 6-8  
Greeley, CO 80631

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4301 Industrial Parkway  
Evans, CO 80620

Jan. 08, 2024

Station Name: NPF 31-34-22 HNB GPM  
Station Number: 68004619  
Station Location: NPF K-22 Pad  
Sample Point: Meter Tube Run  
Analyzed: 01/05/2024 15:16:42 by VRM

Sampled By: Russ Fox  
Sample Of: Gas Spot  
Sample Date: 12/12/2023 12:20  
Sample Conditions: 102.81 psig, @ 58.72 °F  
Method: GPA-2261M  
Cylinder No: 1634

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0001	NIL		GPM TOTAL C2+ 7.666
Nitrogen	0.3824	0.458		GPM TOTAL C3+ 3.855
Carbon Dioxide	2.4201	4.554		GPM TOTAL iC5+ 0.658
Methane	70.2910	48.212		
Ethane	14.1891	18.242	3.811	
Propane	7.6177	14.362	2.108	
Iso-butane	0.8966	2.228	0.295	
n-Butane	2.5080	6.232	0.794	
Iso-pentane	0.5116	1.578	0.188	
n-Pentane	0.6463	1.994	0.235	
Hexanes Plus	0.5371	2.140	0.235	
	100.0000	100.000	7.666	

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8109	3.2176
Calculated Molecular Weight	23.39	93.19
Compressibility Factor	0.9955	

### GPA 2172 Calculation:

#### Calculated Gross BTU per ft<sup>3</sup> @ 14.73 psia & 60°F

Real Gas Dry BTU	1347	5141
Water Sat. Gas Base BTU	1324	5052

Comments: H2S Field Content 1.00 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.