



# Certificate of Analysis

Number: 2500-23070061-003A

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

Tony Walton  
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4301 Industrial Parkway  
Evans, CO 80620

July 17, 2023

Station Name: NP 11-14-28 HNC GPM  
Station Number: 68004837  
Station Location: NP I-21 Pad  
Sample Point: Meter Tube Run  
Analyzed: 07/14/2023 17:40:14 by SO

Sampled By: Russ Fox  
Sample Of: Gas Spot  
Sample Date: 07/03/2023 10:10  
Sample Conditions: 154.20 psig, @ 83.30 °F  
Method: GPA-2261M  
Cylinder No: 1059

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0001	NIL		GPM TOTAL C2+
Nitrogen	0.3971	0.475		GPM TOTAL C3+
Carbon Dioxide	2.3113	4.343		GPM TOTAL iC5+
Methane	70.2625	48.131		
Ethane	14.7548	18.944	3.963	
Propane	7.3546	13.847	2.035	
Iso-butane	0.8075	2.004	0.265	
n-Butane	2.1849	5.422	0.692	
Iso-pentane	0.4080	1.257	0.150	
n-Pentane	0.5205	1.603	0.189	
Hexanes Plus	0.9987	3.974	0.438	
	100.0000	100.000	7.732	

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8120	3.2176
Calculated Molecular Weight	23.42	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	1351	5141
Water Sat. Gas Base BTU	1328	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.