



# Certificate of Analysis

Number: 2500-25040069-001A

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

Tony Walton  
Civitas Resources  
4301 Industrial Parkway  
Evans, CO 80620

Station Name: NPF 31-34-22 HNB GPM  
Station Number: 68004619  
Station Location: NPF K-22 Pad  
Sample Point: Meter Tube Run  
Cylinder No: 1440  
Instrument: Greeley microGC, 1  
Analyzed: 04/04/2025 16:20:24 by ACR

Report Date: 04/07/2025  
Sampled By: Russ Fox  
Sample Of: Gas Spot  
Sample Conditions: 110.18 psia, @ 57.53 °F  
Sample Date: 03/20/2025 12:15  
Received Date: 04/03/2025  
Login Date: 04/03/2025  
Method: GPA-2261M

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia		
Hydrogen Sulfide	0.0002	NIL		GPM TOTAL C2+	7.516
Nitrogen	0.3998	0.481		GPM TOTAL C3+	3.728
Carbon Dioxide	2.4836	4.698		GPM TOTAL iC5+	0.674
Methane	70.7545	48.789			
Ethane	14.1046	18.229	3.788		
Propane	7.4222	14.068	2.053		
Iso-butane	0.8418	2.103	0.277		
n-Butane	2.2860	5.711	0.724		
Iso-pentane	0.4284	1.329	0.157		
n-Pentane	0.5860	1.817	0.213		
Hexanes Plus	0.6929	2.775	0.304		
	100.0000	100.000	7.516		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8065	3.2176
Calculated Molecular Weight	23.27	93.19
Compressibility Factor	0.9956	

### GPA 2172 Calculation:

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

Real Gas Dry BTU	1338	5141
Water Sat. Gas Base BTU	1315	5052

**Comments:** H2S Field Content: 2.00 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. The test results apply to the sample as received.