



# Certificate of Analysis

Number: 2500-22070105-003A

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 21, 2022

Station Name: WF F-4-9 MRLNB GPM  
Station Number: 68005008  
Station Location: WF A-4 PAD  
Sample Point: Meter Tube Run  
Analyzed: 07/20/2022 14:44:10 by SO

Sampled By: Paul Renslow  
Sample Of: Gas Spot  
Sample Date: 07/15/2022 11:00  
Sample Conditions: 139.73 psig, @ 92.83 °F  
Method: GPA-2261M  
Cylinder No: 192

## Analytical Data

| Components       | Mol. %   | Wt. %   | GPM at<br>14.73 psia |                |
|------------------|----------|---------|----------------------|----------------|
| Hydrogen Sulfide | 0.0002   | NIL     |                      | GPM TOTAL C2+  |
| Nitrogen         | 0.5017   | 0.575   |                      | GPM TOTAL C3+  |
| Carbon Dioxide   | 2.1010   | 3.784   |                      | GPM TOTAL iC5+ |
| Methane          | 68.9642  | 45.279  |                      |                |
| Ethane           | 14.1020  | 17.354  | 3.789                |                |
| Propane          | 7.5536   | 13.632  | 2.091                |                |
| Iso-butane       | 0.9143   | 2.175   | 0.301                |                |
| n-Butane         | 2.6905   | 6.400   | 0.852                |                |
| Iso-pentane      | 0.6274   | 1.853   | 0.231                |                |
| n-Pentane        | 0.8815   | 2.603   | 0.321                |                |
| Hexanes Plus     | 1.6636   | 6.345   | 0.729                |                |
|                  | 100.0000 | 100.000 | 8.314                |                |

| Calculated Physical Properties   | Total  | C6+    |
|--|--------|--------|
| Relative Density Real Gas  | 0.8476 | 3.2176 |
| Calculated Molecular Weight  | 24.43  | 93.19  |
| Compressibility Factor   | 0.9950 |        |
| <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   | 1410   | 5141   |
| Water Sat. Gas Base BTU  | 1386   | 5052   |
| <b>Comments:</b> H2S Field Content 2.0 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.