



# Certificate of Analysis

Number: 2500-21070204-001A

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

Tony Walton  
Bonanza Creek  
4301 Industrial Parkway  
Evans, CO 80620

Aug. 03, 2021

Station Name: Mustang V41-34-33 XRLNB GPM  
Station Number: 68004589  
Station Location: Mustang 42-34 Pad  
Sample Point: Meter Tube Run  
Analyzed: 08/03/2021 12:52:06 by RGA

Sampled By: Russ Fox  
Sample Of: Gas Spot  
Sample Date: 07/28/2021 11:15  
Sample Conditions: 64.23 psig, @ 120.79 °F  
Method: GPA-2261M  
Cylinder No: 2500-00030

## Analytical Data

| Components       | Mol. %   | Wt. %   | GPM at<br>14.73 psia |                      |
|------------------|----------|---------|----------------------|----------------------|
| Hydrogen Sulfide | ND       | ND      |                      | GPM TOTAL C2+ 9.830  |
| Nitrogen         | 0.4126   | 0.443   |                      | GPM TOTAL C3+ 5.882  |
| Carbon Dioxide   | 1.8526   | 3.124   |                      | GPM TOTAL iC5+ 1.540 |
| Methane          | 64.3112  | 39.533  |                      |                      |
| Ethane           | 14.6822  | 16.916  | 3.948                |                      |
| Propane          | 9.6823   | 16.359  | 2.682                |                      |
| Iso-butane       | 1.2790   | 2.848   | 0.421                |                      |
| n-Butane         | 3.9094   | 8.706   | 1.239                |                      |
| Iso-pentane      | 0.9377   | 2.592   | 0.345                |                      |
| n-Pentane        | 1.2322   | 3.406   | 0.449                |                      |
| Hexanes Plus     | 1.7008   | 6.073   | 0.746                |                      |
|                  | 100.0000 | 100.000 | 9.830                |                      |

|  |              |            |
|--|--------------|------------|
| <b>Calculated Physical Properties</b>                                  | <b>Total</b> | <b>C6+</b> |
| Relative Density Real Gas  | 0.9060       | 3.2176     |
| Calculated Molecular Weight  | 26.10        | 93.19      |
| Compressibility Factor   | 0.9942       |            |
| <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   | 1508         | 5141       |
| Water Sat. Gas Base BTU  | 1483         | 5052       |
| <b>Comments:</b> H2S Field Content 0.25 ppm                            |              |            |

Data reviewed by: Carson Souther, Laboratory Analyst

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.