



Certificate of Analysis  
 Number: 2500-23100074-002A

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

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 4301 Industrial Parkway  
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Oct. 13, 2023

Station Name: ANT FED T34-20-17 XRLNB GPM  
 Station Number: 68005068  
 Station Location: ANT O-20 Pad  
 Sample Point: Meter Tube Run  
 Analyzed: 10/13/2023 11:01:28 by SO

Sampled By: Russ Fox  
 Sample Of: Gas Spot  
 Sample Date: 10/05/2023 13:30  
 Sample Conditions: 160.39 psig, @ 96.49 °F  
 Method: GPA-2261M  
 Cylinder No: 1053

**Analytical Data**

| Components       | Mol. %   | Wt. %   | GPM at<br>14.73 psia |       |
|------------------|----------|---------|----------------------|-------|
| Hydrogen Sulfide | 0.0002   | NIL     | GPM TOTAL C2+        | 7.560 |
| Nitrogen         | 0.6107   | 0.723   | GPM TOTAL C3+        | 4.064 |
| Carbon Dioxide   | 2.3761   | 4.420   | GPM TOTAL iC5+       | 0.954 |
| Methane          | 70.9114  | 48.081  |                      |       |
| Ethane           | 13.0140  | 16.539  | 3.496                |       |
| Propane          | 7.5553   | 14.081  | 2.091                |       |
| Iso-butane       | 0.7832   | 1.924   | 0.257                |       |
| n-Butane         | 2.4052   | 5.909   | 0.762                |       |
| Iso-pentane      | 0.4426   | 1.350   | 0.163                |       |
| n-Pentane        | 0.5789   | 1.765   | 0.211                |       |
| Hexanes Plus     | 1.3224   | 5.208   | 0.580                |       |
|                  | 100.0000 | 100.000 | 7.560                |       |

| Calculated Physical Properties | Total  | C6+    |
|--------------------------------|--------|--------|
| Relative Density Real Gas      | 0.8204 | 3.2176 |
| Calculated Molecular Weight    | 23.66  | 93.19  |
| Compressibility Factor         | 0.9954 |        |

**GPA 2172 Calculation:**

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

|                         |      |      |
|-------------------------|------|------|
| Real Gas Dry BTU        | 1359 | 5141 |
| Water Sat. Gas Base BTU | 1336 | 5052 |

**Comments:** H2S Field Content 1.50 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.