



# Certificate of Analysis

Number: 2500-21080124-006A

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

Tony Walton  
Bonanza Creek  
4301 Industrial Parkway  
Evans, CO 80620

Aug. 19, 2021

Station Name: NP 31-34-34HNC GPM  
Station Number: 68011406  
Station Location: NP T-27 Pad  
Cylinder No: 2500-01860  
Analyzed: 08/19/2021 13:20:13 by RGA

Sampled By: Russ Fox  
Sample Of: Gas Spot  
Sample Date: 08/10/2021 11:30  
Sample Conditions: 151.0 psig, @ 79.50 °F  
Method: GPA-2261M

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0001	ND		GPM TOTAL C2+
Nitrogen	0.4256	0.522		GPM TOTAL C3+
Carbon Dioxide	2.2317	4.298		GPM TOTAL iC5+
Methane	71.5636	50.238		
Ethane	14.4040	18.953	3.868	
Propane	7.0353	13.575	1.946	
Iso-butane	0.7436	1.891	0.244	
n-Butane	2.0792	5.288	0.658	
Iso-pentane	0.4484	1.416	0.165	
n-Pentane	0.5841	1.844	0.213	
Hexanes Plus	0.4844	1.975	0.212	
	100.0000	100.000	7.306	

<b>Calculated Physical Properties</b>	<b>Total</b>	<b>C6+</b>
Relative Density Real Gas	0.7921	3.2176
Calculated Molecular Weight	22.85	93.19
Compressibility Factor	0.9958	
<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	1322	5141
Water Sat. Gas Base BTU	1299	5052

**Comments:** H2S Field Content 1.25 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.