



# Certificate of Analysis

Number: 2500-21080124-007A

**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 21-24-34HNB GPM  
Station Number: 68011410  
Station Location: NP T-27 Pad  
Cylinder No: 2500-00002  
Analyzed: 08/19/2021 13:32:37 by RGA

Sampled By: Russ Fox  
Sample Of: Gas Spot  
Sample Date: 08/11/2021 09:40  
Sample Conditions: 135.60 psig, @ 96.10 °F  
Method: GPA-2261M

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0001	ND		GPM TOTAL C2+
Nitrogen	0.4146	0.496		GPM TOTAL C3+
Carbon Dioxide	2.2177	4.167		GPM TOTAL iC5+
Methane	70.0140	47.950		
Ethane	14.6961	18.866	3.947	
Propane	7.5838	14.277	2.098	
Iso-butane	0.8540	2.119	0.281	
n-Butane	2.4279	6.025	0.769	
Iso-pentane	0.4966	1.530	0.182	
n-Pentane	0.6490	1.999	0.236	
Hexanes Plus	0.6462	2.571	0.283	
	100.0000	100.000	7.796	

<b>Calculated Physical Properties</b>	<b>Total</b>	<b>C6+</b>
Relative Density Real Gas	0.8121	3.2176
Calculated Molecular Weight	23.42	93.19
Compressibility Factor	0.9955	
<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	1353	5141
Water Sat. Gas Base BTU	1330	5052

**Comments:** H2S Field Content 0.90 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.