



# Certificate of Analysis

Number: 2500-21080124-005A

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 K21-O24-34HC GPM  
Station Number: 68011411  
Station Location: NP T-27 Pad  
Cylinder No: 2500-00573  
Analyzed: 08/19/2021 13:04:16 by RGA

Sampled By: Russ Fox  
Sample Of: Gas Spot  
Sample Date: 08/11/2021 08:55  
Sample Conditions: 128.63 psig, @ 74.75 °F  
Method: GPA-2261M

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0001	ND		GPM TOTAL C2+
Nitrogen	0.4100	0.493		GPM TOTAL C3+
Carbon Dioxide	2.1749	4.106		GPM TOTAL iC5+
Methane	70.3814	48.434		
Ethane	14.4857	18.684	3.890	
Propane	7.5564	14.293	2.091	
Iso-butane	0.8552	2.132	0.281	
n-Butane	2.4303	6.059	0.769	
Iso-pentane	0.4950	1.532	0.182	
n-Pentane	0.6361	1.969	0.232	
Hexanes Plus	0.5749	2.298	0.252	
	100.0000	100.000	7.697	

<b>Calculated Physical Properties</b>	<b>Total</b>	<b>C6+</b>
Relative Density Real Gas	0.8082	3.2176
Calculated Molecular Weight	23.31	93.19
Compressibility Factor	0.9956	
<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	1348	5141
Water Sat. Gas Base BTU	1325	5052

**Comments:** H2S Field Content 1.00 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.