



# Certificate of Analysis

Number: 2500-22090203-002A

Greeley Laboratory  
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Unit 6-8  
Greeley, CO 80631

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Evans, CO 80620

Oct. 07, 2022

Station Name: State Antelope 44-21-16 XRLNB GPM  
Station Number: 68004470  
Station Location: ANT T-21 Pad  
Sample Point: Meter Tube Run  
Analyzed: 10/06/2022 13:55:57 by RHJ

Sampled By: Paul Renslow  
Sample Of: Gas Spot  
Sample Date: 09/28/2022 12:00  
Sample Conditions: 151.65 psig, @ 105.34 °F  
Method: GPA-2261M  
Cylinder No: 702

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0002	NIL		GPM TOTAL C2+ 8.440
Nitrogen	0.6047	0.692		GPM TOTAL C3+ 4.658
Carbon Dioxide	2.5473	4.581		GPM TOTAL iC5+ 0.920
Methane	67.5308	44.274		
Ethane	14.0742	17.294	3.782	
Propane	8.8981	16.034	2.463	
Iso-butane	0.9381	2.228	0.308	
n-Butane	3.0541	7.254	0.967	
Iso-pentane	0.6414	1.891	0.236	
n-Pentane	0.8892	2.622	0.324	
Hexanes Plus	0.8219	3.130	0.360	
	100.0000	100.000	8.440	

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8488	3.2176
Calculated Molecular Weight	24.47	93.19
Compressibility Factor	0.9951	
<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	1399	5141
Water Sat. Gas Base BTU	1375	5052
<b>Comments:</b> H2S Field Content 2.0 ppm		

*Ryleigh Jacobs*

Data reviewed by: Ryleigh Jacobs, Laboratory Analyst

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