



# Certificate of Analysis

Number: 2500-22010084-003A

Greeley Laboratory

2881 S. 31st Ave

Unit 6-8

Greeley, CO 80631

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Jan. 21, 2022

Station Name: Hein 1&2  
Method: GPA 2286  
Analyzed: 01/19/2022 09:39:38 by RHJ

Sampled By:  
Sample Of: Gas Spot  
Sample Date: 01/07/2022  
Sample Conditions:

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia
Hydrogen Sulfide	0.0000	0.0000	
Nitrogen	5.0608	6.2173	
Carbon Dioxide	0.2233	0.4310	
Methane	72.9322	51.3111	
Ethane	8.8135	11.6222	2.3658
Propane	7.3416	14.1973	2.0301
Iso-Butane	1.1553	2.9448	0.3795
n-Butane	2.4942	6.3576	0.7892
Iso-Pentane	0.5628	1.7808	0.2066
n-Pentane	0.6114	1.9345	0.2224
i-Hexanes	0.2250	0.8330	0.0903
n-Hexane	0.1563	0.5909	0.0645
Benzene	0.0060	0.0205	0.0017
Cyclohexane	0.0580	0.2141	0.0198
i-Heptanes	0.1922	0.7903	0.0794
n-Heptane	0.0528	0.2320	0.0245
Toluene	0.0110	0.0445	0.0037
i-Octanes	0.0958	0.4387	0.0424
n-Octane	0.0040	0.0200	0.0021
2,2,4-Trimethylpentane	0.0014	0.0070	0.0007
Ethylbenzene	0.0004	0.0018	0.0001
Xylenes	0.0008	0.0039	0.0003
i-Nonanes	0.0012	0.0067	0.0006
n-Nonane	0.0000	0.0000	0.0000
Decane Plus	0.0000	0.0000	0.0000
	<u>100.0000</u>	<u>100.0000</u>	<u>6.3237</u>

**Calculated Physical Properties**

Calculated Molecular Weight	Total
	22.80

**GPA 2172 Calculation:**

Calculated Gross BTU per ft <sup>3</sup> @ 14.73 psia & 60°F	
Real Gas Dry BTU	1291.0
Water Sat. Gas Base BTU	1268.5
Relative Density Real Gas	0.7901
Compressibility Factor	0.9961

**Comments:** H2S Field Content 0 ppm

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.