



Certificate of Analysis

Number: 2500-21090044-012A

Greeley Laboratory

2881 S. 31st Ave

Unit 6-8

Greeley, CO 80631

Tony Walton
Bonanza Creek
4301 Industrial Parkway
Evans, CO 80620

Sep. 13, 2021

Station Name: NPF 21-24-22 HC GPM
Station Number: 68004616
Station Location: NPF K-22 Pad
Sample Point: Meter Tube Run
Analyzed: 09/13/2021 14:01:42 by RGA

Sampled By: Russ Fox
Sample Of: Gas Spot
Sample Date: 09/03/2021 08:50
Sample Conditions: 105.84 psig, @ 73.84 °F
Method: GPA-2261M
Cylinder No: 2500-00634

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0001	ND		GPM TOTAL C2+ 8.012
Nitrogen	0.3540	0.420		GPM TOTAL C3+ 3.973
Carbon Dioxide	2.3739	4.426		GPM TOTAL iC5+ 0.587
Methane	69.0824	46.951		
Ethane	15.0368	19.154	4.039	
Propane	7.9636	14.876	2.203	
Iso-butane	0.9821	2.418	0.323	
n-Butane	2.7156	6.686	0.860	
Iso-pentane	0.4385	1.340	0.161	
n-Pentane	0.4801	1.467	0.175	
Hexanes Plus	0.5729	2.262	0.251	
	100.0000	100.000	8.012	

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8185	3.2176
Calculated Molecular Weight	23.61	93.19
Compressibility Factor	0.9954	

GPA 2172 Calculation:

Calculated Gross BTU per ft³ @ 14.73 psia & 60°F

Real Gas Dry BTU	1360	5141
Water Sat. Gas Base BTU	1337	5052

Comments: H2S Field Content 0.50 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.