



Certificate of Analysis

Number: 2500-21090044-005A

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 11-14-22 HNC GPM
Station Number: 68011142
Station Location: NPF K-22 Pad
Sample Point: Meter Tube Run
Analyzed: 09/13/2021 10:14:22 by RGA

Sampled By: Russ Fox
Sample Of: Gas Spot
Sample Date: 09/06/2021 12:05
Sample Conditions: 107.33 psig, @ 80.99 °F
Method: GPA-2261M
Cylinder No: 2500-01041

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0001	ND		GPM TOTAL C2+ 8.113
Nitrogen	0.3746	0.438		GPM TOTAL C3+ 4.262
Carbon Dioxide	2.2469	4.126		GPM TOTAL iC5+ 0.921
Methane	69.1854	46.316		
Ethane	14.3338	17.986	3.851	
Propane	7.6377	14.054	2.114	
Iso-butane	0.9696	2.352	0.319	
n-Butane	2.8661	6.952	0.908	
Iso-pentane	0.6959	2.095	0.256	
n-Pentane	1.0147	3.055	0.369	
Hexanes Plus	0.6752	2.626	0.296	
	100.0000	100.000	8.113	

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8310	3.2176
Calculated Molecular Weight	23.96	93.19
Compressibility Factor	0.9953	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F		
Real Gas Dry BTU	1383	5141
Water Sat. Gas Base BTU	1359	5052
Comments: H2S Field Content 1.25 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.