



Certificate of Analysis

Number: 2500-21090044-002A

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 A-E-22 HC GPM
Station Number: 68011140
Station Location: NPF K-22 Pad
Sample Point: Meter Tube Run
Analyzed: 09/13/2021 08:38:27 by RGA

Sampled By: Russ Fox
Sample Of: Gas Spot
Sample Date: 09/06/2021 09:50
Sample Conditions: 104.76 psig, @ 78.87 °F
Method: GPA-2261M
Cylinder No: 2500-01836

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0001	ND		GPM TOTAL C2+
Nitrogen	0.4019	0.474		GPM TOTAL C3+
Carbon Dioxide	2.0965	3.882		GPM TOTAL iC5+
Methane	69.8005	47.110		
Ethane	14.2239	17.993	3.821	
Propane	7.4006	13.729	2.048	
Iso-butane	0.9385	2.295	0.308	
n-Butane	2.8077	6.865	0.889	
Iso-pentane	0.7721	2.344	0.284	
n-Pentane	0.9041	2.744	0.329	
Hexanes Plus	0.6541	2.564	0.287	
	100.0000	100.000	7.966	

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8242	3.2176
Calculated Molecular Weight	23.77	93.19
Compressibility Factor	0.9953	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F		
Real Gas Dry BTU	1375	5141
Water Sat. Gas Base BTU	1352	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.