



Certificate of Analysis

Number: 2500-21090044-007A

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 F-J-22 HNC GPM
Station Number: 68011144
Station Location: NPF K-22 Pad
Sample Point: Meter Tube Run
Analyzed: 09/13/2021 12:33:28 by RGA

Sampled By: Russ Fox
Sample Of: Gas Spot
Sample Date: 09/07/2021 09:05
Sample Conditions: 112.26 psig, @ 73.26 °F
Method: GPA-2261M
Cylinder No: 2500-00610

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0001	ND		GPM TOTAL C2+ 7.580
Nitrogen	0.3928	0.475		GPM TOTAL C3+ 3.666
Carbon Dioxide	2.3053	4.384		GPM TOTAL iC5+ 0.543
Methane	70.5616	48.915		
Ethane	14.5767	18.940	3.914	
Propane	7.5108	14.312	2.078	
Iso-butane	0.8945	2.247	0.294	
n-Butane	2.3730	5.960	0.751	
Iso-pentane	0.4054	1.264	0.149	
n-Pentane	0.4877	1.521	0.178	
Hexanes Plus	0.4921	1.982	0.216	
	100.0000	100.000	7.580	

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8022	3.2176
Calculated Molecular Weight	23.14	93.19
Compressibility Factor	0.9956	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F		
Real Gas Dry BTU	1336	5141
Water Sat. Gas Base BTU	1313	5052
Comments: H2S Field Content 0.75 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.