



Certificate of Analysis

Number: 2500-21100202-001A

Greeley Laboratory
2881 S. 31st Ave
Unit 6-8
Greeley, CO 80631

Tony Walton
Bonanza Creek
4301 Industrial Parkway
Evans, CO 80620

Nov. 04, 2021

Station Name: SPH W42-29-30 XRLNB GPM
Station Number: 68004644
Station Location: PH B-28 Pad
Sample Point: Meter Tube Run
Analyzed: 11/04/2021 09:18:47 by RGA

Sampled By: Russ Fox
Sample Of: Gas Spot
Sample Date: 10/25/2021 12:30
Sample Conditions: 89.98 psig, @ 82.75 °F
Method: GPA-2261M
Cylinder No: 2500-00930

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0002	ND		GPM TOTAL C2+
Nitrogen	0.8339	0.999		GPM TOTAL C3+
Carbon Dioxide	2.4042	4.523		GPM TOTAL iC5+
Methane	71.2139	48.835		
Ethane	12.1481	15.614	3.262	
Propane	8.1178	15.301	2.246	
Iso-butane	0.8386	2.083	0.276	
n-Butane	2.6949	6.695	0.853	
Iso-pentane	0.4991	1.539	0.183	
n-Pentane	0.6279	1.936	0.229	
Hexanes Plus	0.6214	2.475	0.272	
	100.0000	100.000	7.321	

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8110	3.2176
Calculated Molecular Weight	23.39	93.19
Compressibility Factor	0.9956	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F		
Real Gas Dry BTU	1340	5141
Water Sat. Gas Base BTU	1317	5052
Comments: H2S Field Content 1.50 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.