



Certificate of Analysis

Number: 2500-21100202-002A

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 GLM
Station Number: 66004652
Station Location: PH B-28 Pad
Sample Point: Meter Tube Run
Analyzed: 11/04/2021 09:41:51 by RGA

Sampled By: Russ Fox
Sample Of: Gas Spot
Sample Date: 10/25/2021 14:08
Sample Conditions: 898.85 psig, @ 81.79 °F
Method: GPA-2261M
Cylinder No: 2500-00636

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0001	ND		GPM TOTAL C2+
Nitrogen	0.9843	1.243		GPM TOTAL C3+
Carbon Dioxide	2.2787	4.521		GPM TOTAL iC5+
Methane	74.2052	53.665		
Ethane	11.8266	16.031	3.174	
Propane	7.1466	14.206	1.976	
Iso-butane	0.6530	1.711	0.214	
n-Butane	1.8861	4.942	0.597	
Iso-pentane	0.2841	0.924	0.104	
n-Pentane	0.3499	1.138	0.127	
Hexanes Plus	0.3854	1.619	0.169	
	100.0000	100.000	6.361	

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.7686	3.2176
Calculated Molecular Weight	22.18	93.19
Compressibility Factor	0.9961	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F		
Real Gas Dry BTU	1274	5141
Water Sat. Gas Base BTU	1253	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.