



Certificate of Analysis

Number: 2500-21090084-001A

Greeley Laboratory

2881 S. 31st Ave

Unit 6-8

Greeley, CO 80631

Tony Walton
Bonanza Creek
4301 Industrial Parkway
Evans, CO 80620

Sep. 17, 2021

Station Name: SA 41-44-28 HNB GLM
Station Number: 66004474
Station Location: ANT T-21 Pad
Sample Point: Meter Run
Analyzed: 09/17/2021 09:25:52 by RGA

Sampled By: Patrick Purcell
Sample Of: Gas Spot
Sample Date: 09/08/2021 13:25
Sample Conditions: 1234.76 psig, @ 82.96 °F
Method: GPA-2261M
Cylinder No: 2500-00923

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0001	ND		GPM TOTAL C2+ 6.525
Nitrogen	0.6289	0.792		GPM TOTAL C3+ 3.128
Carbon Dioxide	2.2769	4.507		GPM TOTAL iC5+ 0.457
Methane	74.0159	53.401		
Ethane	12.6543	17.113	3.397	
Propane	6.6391	13.166	1.836	
Iso-butane	0.6610	1.728	0.217	
n-Butane	1.9541	5.108	0.618	
Iso-pentane	0.3311	1.074	0.122	
n-Pentane	0.4270	1.386	0.155	
Hexanes Plus	0.4116	1.725	0.180	
	100.0000	100.000	6.525	

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.7705	3.2176
Calculated Molecular Weight	22.24	93.19
Compressibility Factor	0.9960	

GPA 2172 Calculation:

Calculated Gross BTU per ft³ @ 14.73 psia & 60°F

Real Gas Dry BTU	1283	5141
Water Sat. Gas Base BTU	1261	5052

Comments: H2S Field Content 0.5 ppm

Data reviewed by: Matthew Loveley, Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.