



Certificate of Analysis

Number: 2500-21090084-004A

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: State Antelope 41-44-28 HNB GPM
Station Number: 68004471
Station Location: ANT T-21 Pad
Sample Point: Meter Run
Analyzed: 09/17/2021 11:11:56 by RGA

Sampled By: Patrick Purcell
Sample Of: Gas Spot
Sample Date: 09/09/2021 06:30
Sample Conditions: 115.2 psig, @ 94.06 °F
Method: GPA-2261M
Cylinder No: 2500-00694

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0002	ND		GPM TOTAL C2+
Nitrogen	0.5190	0.568		GPM TOTAL C3+
Carbon Dioxide	2.3382	4.021		GPM TOTAL iC5+
Methane	64.7047	40.567		
Ethane	14.2927	16.795	3.842	
Propane	9.8262	16.933	2.721	
Iso-butane	1.2739	2.894	0.419	
n-Butane	4.1868	9.510	1.327	
Iso-pentane	0.8769	2.472	0.322	
n-Pentane	1.1869	3.347	0.432	
Hexanes Plus	0.7945	2.893	0.348	
	100.0000	100.000	9.411	

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8880	3.2176
Calculated Molecular Weight	25.59	93.19
Compressibility Factor	0.9945	

GPA 2172 Calculation:

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

Real Gas Dry BTU	1466	5141
Water Sat. Gas Base BTU	1442	5052

Comments: H2S Field Content 1.5 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.