



Certificate of Analysis

Number: 2500-21090084-002A

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: Antelope T34-P31-21 HNC GPM
Station Number: 68004469
Station Location: ANT T-21 Pad
Sample Point: Meter Run
Analyzed: 09/17/2021 09:52:42 by RGA

Sampled By: Patrick Purcell
Sample Of: Gas Spot
Sample Date: 09/09/2021 11:12
Sample Conditions: 112.2 psig, @ 75.13 °F
Method: GPA-2261M
Cylinder No: 2500-00587

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0002	ND		GPM TOTAL C2+ 13.408
Nitrogen	0.3326	0.316		GPM TOTAL C3+ 8.853
Carbon Dioxide	2.0769	3.097		GPM TOTAL iC5+ 1.070
Methane	51.2941	27.881		
Ethane	16.9103	17.228	4.555	
Propane	17.0749	25.511	4.738	
Iso-butane	2.3042	4.538	0.760	
n-Butane	7.1964	14.172	2.285	
Iso-pentane	1.0608	2.593	0.391	
n-Pentane	1.2078	2.953	0.441	
Hexanes Plus	0.5418	1.711	0.238	
	100.0000	100.000	13.408	

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	1.0263	3.2176
Calculated Molecular Weight	29.51	93.19
Compressibility Factor	0.9925	

GPA 2172 Calculation:

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

Real Gas Dry BTU	1692	5141
Water Sat. Gas Base BTU	1663	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.