



Certificate of Analysis

Number: 2500-21090208-002A

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

Tony Walton
Bonanza Creek
4301 Industrial Parkway
Evans, CO 80620

Oct. 05, 2021

Station Name: State Antelope K-O-30 HNB GPM
Station Number: 68011040
Station Location: SA F30 Pad
Sample Point: Meter Run
Analyzed: 10/05/2021 10:40:14 by RGA

Sampled By: Patrick Purcell
Sample Of: Gas Spot
Sample Date: 09/27/2021 11:15
Sample Conditions: 81.3 psig, @ 119.92 °F
Method: GPA-2261M
Cylinder No: 2500-00108

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0001	ND		GPM TOTAL C2+ 6.904
Nitrogen	0.6012	0.747		GPM TOTAL C3+ 3.383
Carbon Dioxide	2.1262	4.152		GPM TOTAL iC5+ 0.468
Methane	72.8608	51.860		
Ethane	13.1134	17.494	3.521	
Propane	7.2281	14.141	1.999	
Iso-butane	0.7214	1.860	0.237	
n-Butane	2.1465	5.535	0.679	
Iso-pentane	0.3675	1.176	0.135	
n-Pentane	0.4466	1.430	0.163	
Hexanes Plus	0.3882	1.605	0.170	
	100.0000	100.000	6.904	

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.7811	3.2176
Calculated Molecular Weight	22.54	93.19
Compressibility Factor	0.9959	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F		
Real Gas Dry BTU	1304	5141
Water Sat. Gas Base BTU	1282	5052

Comments: H2S Field Content 1.25 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.