



Certificate of Analysis
Number: 2500-20100073-001A

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

Tony Walton
Bonanza Creek
4301 Industrial Parkway
Evans, CO 80620

Oct. 12, 2020

Station Name: WF K21-4-9 MRLNC GPM
Station Number: 68005010
Cylinder No: 2500-01987
Analyzed: 10/09/2020 16:32:58 by KRS

Sampled By: Brandon Fox
Sample Of: Gas Spot
Sample Date: 10/06/2020
Sample Conditions: 135 psig, @ 78 °F
Method: GPA-2261M

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia		
Nitrogen	0.455	0.576		GPM TOTAL C2+	6.683
Carbon Dioxide	1.532	3.047		GPM TOTAL C3+	3.133
Methane	74.411	53.955		GPM TOTAL iC5+	0.503
Ethane	13.225	17.974	3.550		
Propane	6.394	12.744	1.768		
Iso-butane	0.727	1.910	0.239		
n-Butane	1.970	5.175	0.623		
Iso-pentane	0.375	1.223	0.138		
n-Pentane	0.464	1.513	0.169		
Hexanes Plus	0.447	1.883	0.196		
	100.000	100.000	6.683		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.7667	3.2176
Calculated Molecular Weight	22.12	93.19
Compressibility Factor	0.9960	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F		
Real Gas Dry BTU	1299	5141
Water Sat. Gas Base BTU	1277	5052
Comments: H2S Field Content 0 ppm		

Hydrocarbon Laboratory Manager

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

W00# 20100073



SPL

Emergency Contact Number: 800-424-9300

1A

Cylinder #: 1987
Company: BCE System: _____
Location: Wetco A4 pad Sample of: ☒ Gas ☐ Oil ☐ Condensate
Station: WF K21-4-9 MRLNC Station No.: 68005010
Sample Point: port Type: ☒ Spot ☐ Composite
Source Press.: _____ Source Temp.: _____ Ambient Temp.: 70
Sampled By: B. Fox Company: GRAND
Date/Time Off: 10-620 AM/PM On: _____ AM/PM
Sample Pressure: 135 ☐ PSIG ☒ PSIA Sample Temp.: 78 F°
H₂O Cont.: _____ LBS/MMSCF H₂S Cont.: 0 ☒ PPM ☐ GRAINS ☐ %
% Outage: _____ Remarks: _____

Note - As a convenience to our clients, this form is available in an electronic format. Please contact one of our offices above for the form to be e-mailed to you.