



Certificate of Analysis

Number: 2500-20100172-001A

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

Tony Walton
Bonanza Creek
4301 Industrial Parkway
Evans, CO 80620

Oct. 20, 2020

Station Name: ANT FED T34-20-17 XRLNB GPM
Station Number: 68005068
Station Location: ANT O-20 Pad
Sample Point: Meter Tube Run
Analyzed: 10/20/2020 08:51:42 by KRS

Sampled By: Russ Fox
Sample Of: Gas Spot
Sample Date: 10/09/2020 12:20
Sample Conditions: 122.38 psig, @ 114.13 °F
Method: GPA-2261M
Cylinder No: 2500-00698

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia		
Nitrogen	0.638	0.766		GPM TOTAL C2+	7.471
Carbon Dioxide	1.656	3.123		GPM TOTAL C3+	4.008
Methane	71.807	49.369		GPM TOTAL iC5+	0.862
Ethane	12.893	16.614	3.463		
Propane	7.286	13.769	2.016		
Iso-butane	0.848	2.112	0.279		
n-Butane	2.687	6.693	0.851		
Iso-pentane	0.556	1.719	0.204		
n-Pentane	0.743	2.297	0.270		
Hexanes Plus	0.886	3.538	0.388		
	100.000	100.000	7.471		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8090	3.2176
Calculated Molecular Weight	23.33	93.19
Compressibility Factor	0.9955	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F		
Real Gas Dry BTU	1359	5141
Water Sat. Gas Base BTU	1336	5052

Comments: H2S Field Content 1.20 ppm

Hydrocarbon Laboratory Manager

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

WOO # 20100172



SPL

Emergency Contact Number: 800-424-9300

1A

Cylinder #: 698
Company: Bonanza Creek System: _____
Location: ANT FED 0-20 Pa Sample of: ☒ Gas ☐ Oil ☐ Condensate
Station: ANT FED T34-20-17XRLNB 69m Station No.: 68005068
Sample Point: meter tube Run Type: ☒ Spot ☐ Composite
Source Press.: 122.38 Source Temp.: 114.13 Ambient Temp.: 80.0 F
Sampled By: Russ Cox Company: Graves
Date/Time Off: 10-29-20 12:20 AM/PM PM On: _____ AM/PM PM
Sample Pressure: 122.38 ☒ PSIG ☐ PSIA Sample Temp.: 114.13 E
H₂O Cont.: _____ LBS/MMSCF H₂S Cont.: 1.20 ☒ PPM ☐ GRAINS ☐ %
% Outage: _____ Remarks: _____

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