



Certificate of Analysis

Number: 2500-20120052-001A

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

Tony Walton
Bonanza Creek
4301 Industrial Parkway
Evans, CO 80620

Dec. 07, 2020

Station Name: State 1-2 Well Head
Station Location: State 1-2 Pad
Cylinder No: 2500-01879
Analyzed: 12/07/2020 15:38:29 by RHJ

Sampled By: Russ Fox
Sample Of: Gas Spot
Sample Date: 12/02/2020 09:00
Sample Conditions: 320.0 psig, @ 20.0 °F
Method: GPA-2261M

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia		
Nitrogen	0.708	0.899		GPM TOTAL C2+	6.659
Carbon Dioxide	2.309	4.607		GPM TOTAL C3+	3.087
Methane	72.986	53.088		GPM TOTAL iC5+	0.128
Ethane	13.309	18.145	3.572		
Propane	8.122	16.238	2.246		
Iso-butane	0.666	1.755	0.219		
n-Butane	1.560	4.111	0.494		
Iso-pentane	0.141	0.461	0.052		
n-Pentane	0.152	0.497	0.055		
Hexanes Plus	0.047	0.199	0.021		
	100.000	100.000	6.659		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.7642	3.2176
Calculated Molecular Weight	22.06	93.19
Compressibility Factor	0.9961	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F		
Real Gas Dry BTU	1272	5141
Water Sat. Gas Base BTU	1250	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.

**SPL**

Emergency Contact Number: 800-424-9300

1A

Cylinder #: 1879
Company: Bonanza Creek System: _____
Location: State 1-2 Sample of: ☒ Gas ☐ Oil ☐ Condensate
Station: State 1-2 well Head Station No.: State 1-2 Cerv.
Sample Point: well Head Type: ☒ Spot ☐ Composite
Source Press.: 320.0 Source Temp.: 20.0 F Ambient Temp.: 18.0 F
Sampled By: Russ Fox Company: Craves
Date/Time Off: 12-02-20 9:00 AM/PM On: _____ AM/PM
Sample Pressure: 320.0 ☒ PSIG ☐ PSIA Sample Temp.: 20.0 (F°)
H₂O Cont.: _____ LBS/MMSCF H₂S Cont.: 0 ☒ PPM ☐ GRAINS ☐ %
% Outage: _____ Remarks: _____

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