



Certificate of Analysis  
 Number: 2500-20090095-001A

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

Tony Walton  
 Bonanza Creek  
 4301 Industrial Parkway  
 Evans, CO 80620

Sep. 21, 2020

Station Name: NPF 31-34-22 HNB GPM  
 Station Number: 68004619  
 Station Location: NPF K-22 Pad  
 Sample Point: Meter Tube Run  
 Analyzed: 09/21/2020 09:55:14 by CRS

Sampled By: Russ Fox  
 Sample Of: Gas Spot  
 Sample Date: 09/07/2020 11:40  
 Sample Conditions: 120.40 psig, @ 80.73 °F  
 Method: GPA-2261M  
 Cylinder No: 2500-00715

**Analytical Data**

Components	Mol. %	Wt. %	GPM at 14.73 psia		
Nitrogen	0.364	0.447		GPM TOTAL C2+	7.247
Carbon Dioxide	1.823	3.517		GPM TOTAL C3+	3.307
Methane	72.526	51.002		GPM TOTAL iC5+	0.784
Ethane	14.673	19.341	3.940		
Propane	5.239	10.127	1.449		
Iso-butane	0.780	1.987	0.256		
n-Butane	2.585	6.586	0.818		
Iso-pentane	0.581	1.838	0.213		
n-Pentane	0.741	2.344	0.270		
Hexanes Plus	0.688	2.811	0.301		
	100.000	100.000	7.247		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.7907	3.2176
Calculated Molecular Weight	22.81	93.19
Compressibility Factor	0.9957	
<b>GPA 2172 Calculation:</b>		
<b>Calculated Gross BTU per ft<sup>3</sup> @ 14.73 psia &amp; 60°F</b>		
Real Gas Dry BTU	1331	5141
Water Sat. Gas Base BTU	1308	5052

Comments: H2S Field Content 1.25 ppm

Hydrocarbon Laboratory Manager

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

# Field Tags

(WO# 20090095)

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SPL

Emergency Contact Number: 800-424-9300

1A

Cylinder #: 715  
Company: Bonanza Creek System: \_\_\_\_\_  
Location: NPF K-22 Pad Sample of:  Gas  Oil  Condensate  
Station: NPF 31-34-22 HMB 6A Station No.: 68004619  
Sample Point: Meter tube Run Type:  Spot  Composite  
Source Press.: 120.40 Source Temp.: 80.73 Ambient Temp.: 84.0 F  
Sampled By: Russ Fox Company: Corvus  
Date/Time Off: 9-07-20 11:40 (AM/PM) On: \_\_\_\_\_ (AM/PM)  
Sample Pressure: 120.40  PSIG  PSIA Sample Temp.: 80.73 (F)  
H<sub>2</sub>O Cont.: \_\_\_\_\_ LBS/MMSCF H<sub>2</sub>S Cont.: 1.25  PPM  GRAINS  %  
% Outage: \_\_\_\_\_ Remarks: \_\_\_\_\_

# Chain of Custody

(WO# 20090095)

