



Certificate of Analysis
 Number: 2500-20070220-001A

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

Tony Walton
 Bonanza Creek
 4301 Industrial Parkway
 Evans, CO 80620

July 27, 2020

Station Name: Mustang V41-34-33XRLNB Flare
 Station Number: 63004595
 Station Location: Mustang 42-34 Pad
 Sample Point: Meter Tube Run
 Analyzed: 07/27/2020 15:31:15 by KS

Sampled By: Russ Fox
 Sample Of: Gas Spot
 Sample Date: 07/23/2020 16:10
 Sample Conditions: 71.31 psig, @ 103.68 °F
 Method: GPA-2261M
 Cylinder No: 004051

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia		
Nitrogen	0.344	0.380		GPM TOTAL C2+	9.326
Carbon Dioxide	1.450	2.515		GPM TOTAL C3+	5.392
Methane	66.413	41.996		GPM TOTAL iC5+	1.424
Ethane	14.633	17.344	3.934		
Propane	8.747	15.203	2.422		
Iso-butane	1.189	2.724	0.391		
n-Butane	3.645	8.351	1.155		
Iso-pentane	0.865	2.460	0.318		
n-Pentane	1.136	3.231	0.414		
Hexanes Plus	1.578	5.796	0.692		
	100.000	100.000	9.326		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8805	3.2176
Calculated Molecular Weight	25.37	93.19
Compressibility Factor	0.9945	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F		
Real Gas Dry BTU	1480	5141
Water Sat. Gas Base BTU	1455	5052

Comments: H2S Field Content 0.50 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# 20070220)



SPL

Emergency Contact Number: 800-424-9300

220

72 hr. RUSH !!

4051

Cylinder #: _____ System: _____
 Company: Bonanza Creek
 Location: Mustang 42-34 P Sample of: Gas Oil Condensate
 Station: Mustang Survey V4134-33 XRL No. 1 Station No.: 63004595
 Sample Point: meter tube Run Type: Spot Composite
 Source Press.: 71.31 Source Temp.: 103.68 Ambient Temp.: 90.0F
 Sampled By: Russ Fox Company: Graves
 Date/Time Off: 7-23-22 4:10 AM PM On: 4:06 AM PM
 Sample Pressure: 71.31 PSIG PSIA Sample Temp.: 103.68 (F°)
 H₂O Cont.: _____ LBS/MMSCF H₂S Cont.: 0.50 PPM GRAINS %
 % Outage: _____ Remarks: RUSH !!

WO# 20070220

Chain of Custody

(WO# 20070220)



Report To: Bonanza Creek Energy (Company Name): Address: 4301 Industrial Pkwy		SPL Work Order No.:		Acct. Mate Code:		Dept. Code		Page 1 / Pages 1	
City/State/Zip: Evans CO 80620		Project/Station Name:		Project/Station Number:		Project/Station Location:		Requested TAT 72 Hr 10 business days	
Contact: Russ Fox - Graves Analytical Phone: 970-286-5071 Fax: ffoxmeasurement@gmail.com		Indicate Billing Type: (Place "X" where appropriate)		Net 30 day Acct.		Check #		* Surcharges May Apply (See quote for details)	
Invoice To: Bonanza Creek Energy Address: 4301 Industrial Pkwy		Special Instructions: C6+		Credit Card		<<<Contact SPL, Inc for CC payment arrangements.			
(Company Name): Bonanza Creek Energy Address: 4301 Industrial Pkwy		1 Terms: Cylinders will be rented for \$10/cyl. All cylinders checked out are to be returned within 21 days, whether they contain sample or not. Cylinders not returned after 30 days will be considered lost and will be billed at current replacement cost.		Requested Analysis (Place an "X" next to Sample ID below)					
City/State/Zip: Evans CO 80620 Contact: Tony Walton - BCE Phone: 970-301-1178 Fax: walton@bonanzackr.com Client PO# or Ref. No.: Contract/Proposal #: (i.e. SPLC###)		Cylinder Tracking Info ¹		GPA 2261 GC-C6GAS					
		Sample ID (used to log/track sample)		Sample Date		Sample Time		Sample Type (Gas/Liq./Solid)	
		Duplicate		Composite		Spot		Cylinder #	
		Date Out		Date In		Sample Temp (F)		Sample Pressure (PSIG)	
								Comments	
63004596 07/23/20 13:19 Gas X 810 07/23/20 X 110.4 62.42								Must. V-34 Pad. Longhorn W41-3-4XR/LNB Flare	
63004592 07/23/20 9:50 Gas X 664 07/23/20 X 106.3 69.56								Must. U-22 Pad. Mustang B11-23-34XR/LNB Flare	
63004597 07/23/20 14:00 Gas X 24 07/23/20 X 115.3 65.53								Long. U-10 Pad. Longhorn W41-10-9XR/LNB Flare	
63004594 07/23/20 12:44 Gas X 607 07/23/20 X 90.35 63.8								Must. 14-26 Pad. Mustang D14-26-55XR/LNB Flare	
63004595 07/23/20 16:10 Gas X 4051 07/23/20 X 103.7 71.31								Must. 42-34 Pad. Mustang V41-34-53XR/LNB Flare	
63004584 07/23/20 11:08 Gas X 4045 07/23/20 X 89.24 73.94								Must. 44-22 Pad. Mustang X44-22-21 Flare	
63004500 07/23/20 12:34 Gas X 456 07/23/20 X 111.6 48.06								Long. 14-11 Pad. Longhorn D14-11-12XR/LNB Flare	
63010001 07/23/20 15:25 Gas X 753 07/23/20 X 100.7 34.34								French Lakes 4-63-36 1H	
63004583 07/23/20 11:55 Gas X 4187 07/23/20 X 96.09 70.19								Must. 12-26 Pad. Mustang V41-27-26XR/LNB Flare	
All bottles 72 Hr. Rush								All bottles 72 Hr. Rush	
Sampled By-Print Name: Russ Fox Signature:		Received By-Company:		Received By-Print Name: <i>SPL</i> Signature: <i>Carson Seathner</i>		Date: 7/23/20 Time: 17:30			
Reinquished By-Print Name: Russ Fox Signature:		Received By-Print Name:		Signature:		Date: 7/23/20 Time: 17:30			
Reinquished By-Print Name:		Received By-Print Name:		Signature:		Date:		Time:	
Reinquished By-Print Name:		Received By-Print Name:		Signature:		Date:		Time:	
Choose SPL Facility >>>		Ship to Address: 208 Main St, Windsor, CO 80550		Phone: 970-460-0741					

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.