



# Certificate of Analysis

Number: 2500-19030094-004A

**Windsor Laboratory**  
208 Main Street – Unit A  
Windsor, CO 80550

Tony Walton  
Bonanza Creek  
4301 Industrial Parkway  
Evans, CO 80620

Mar. 25, 2019

Station Name: CV 7-62-26, 35 2H FLR  
Station Number: 63010009  
Station Location: CV 7-62-26, 35 2H FLR  
Cylinder No: 2500-00001  
Analyzed: 03/25/2019 11:05:42 by James Lowe

Sampled By: Ron Cole  
Sample Of: Gas Spot  
Sample Date: 03/22/2019  
Sample Conditions: 13.6 psig, @ 50.4 °F  
Method: GPA-2261M

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia		
Nitrogen	0.695	0.749		GPM TOTAL C2+	8.931
Carbon Dioxide	3.349	5.670		GPM TOTAL C3+	5.625
Methane	65.921	40.682		GPM TOTAL iC5+	1.664
Ethane	12.294	14.220	3.306		
Propane	8.915	15.122	2.469		
Iso-butane	1.036	2.316	0.341		
n-Butane	3.630	8.116	1.151		
Iso-pentane	0.903	2.506	0.332		
n-Pentane	1.305	3.622	0.476		
Hexanes Plus	1.952	6.997	0.856		
	100.000	100.000	8.931		

<b>Calculated Physical Properties</b>	<b>Total</b>	<b>C6+</b>
Relative Density Real Gas	0.9023	3.2176
Calculated Molecular Weight	26.00	93.19
Compressibility Factor	0.9944	
<b>GPA 2172-09 Calculation:</b>		
<b>Calculated Gross BTU per ft<sup>3</sup> @ 14.73 psia &amp; 60°F</b>		
Real Gas Dry BTU	1460	5141
Water Sat. Gas Base BTU	1435	5052
<b>Comments:</b> H2S 1 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# 19030094)



Emergency Contact Number: 800-424-9300

Cylinder #: 2500-00471  
Company: BC System: \_\_\_\_\_  
Location: LH 14-11 FLR Sample of: ☒ Gas ☐ Oil ☐ Condensate  
Station: LH 14-11 FLR Station No.: 43004500  
Sample Point: \_\_\_\_\_ Type: ☒ Spot ☐ Composite  
Source Press.: 2.11 PSIG Source Temp.: 50.31 Ambient Temp.: 40  
Sampled By: POH 6612 Company: EA46  
Date/Time Off: 3-22-19 AM/PM On: 3-22-19 AM/PM  
Sample Pressure: 2.11 ☐ PSIG ☒ PSIA Sample Temp.: 50.31 F°  
H<sub>2</sub>O Cont.: \_\_\_\_\_ LBS/MMSCF H<sub>2</sub>S Cont.: \_\_\_\_\_ ☐ PPM ☐ GRAINS ☐ %  
% Outage: \_\_\_\_\_ Remarks: \_\_\_\_\_

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Emergency Contact Number: 800-424-9300

Cylinder #: 2500-00477  
Company: BC System: \_\_\_\_\_  
Location: CV 7-42-30, 31, 24 Sample of: ☒ Gas ☐ Oil ☐ Condensate  
Station: CV 7-42-30 24 Station No.: \_\_\_\_\_  
Sample Point: \_\_\_\_\_ Type: ☒ Spot ☐ Composite  
Source Press.: 99.6 Source Temp.: 44.0 Ambient Temp.: 48  
Sampled By: POH 6612 Company: EA46  
Date/Time Off: 3-22-19 AM/PM On: 3-22-19 AM/PM  
Sample Pressure: 99.6 ☒ PSIG ☒ PSIA Sample Temp.: 44.0 F°  
H<sub>2</sub>O Cont.: \_\_\_\_\_ LBS/MMSCF H<sub>2</sub>S Cont.: 5 ☒ PPM ☐ GRAINS ☐ %  
% Outage: \_\_\_\_\_ Remarks: \_\_\_\_\_



Emergency Contact Number: 800-424-9300

Cylinder #: 2500-00004  
Company: BC System: \_\_\_\_\_  
Location: CV 7-42-27, 34 24 Sample of: ☒ Gas ☐ Oil ☐ Condensate  
Station: CV 7-42-34-24 Station No.: 43010010  
Sample Point: \_\_\_\_\_ Type: ☒ Spot ☐ Composite  
Source Press.: 24.5 Source Temp.: 46.1 Ambient Temp.: 47  
Sampled By: POH 6612 Company: EA46  
Date/Time Off: 3-22-19 AM/PM On: 3-22-19 AM/PM  
Sample Pressure: 24.5 ☒ PSIG ☒ PSIA Sample Temp.: 46.1 F°  
H<sub>2</sub>O Cont.: \_\_\_\_\_ LBS/MMSCF H<sub>2</sub>S Cont.: 3.75 P ☒ PPM ☐ GRAINS ☐ %  
% Outage: \_\_\_\_\_ Remarks: \_\_\_\_\_



Emergency Contact Number: 800-424-9300

Cylinder #: 2500-00001  
Company: BC System: \_\_\_\_\_  
Location: CV 7-42-24, 35-24 Pst Sample of: ☒ Gas ☐ Oil ☐ Condensate  
Station: CV 7-42-35 24 Station No.: 41010019  
Sample Point: \_\_\_\_\_ Type: ☒ Spot ☐ Composite  
Source Press.: 13.6 Source Temp.: 50.4 Ambient Temp.: 55  
Sampled By: POH 6612 Company: EA46  
Date/Time Off: 3-22-19 AM/PM On: 3-22-19 AM/PM  
Sample Pressure: 13.6 ☒ PSIG ☐ PSIA Sample Temp.: 50.4 F°  
H<sub>2</sub>O Cont.: \_\_\_\_\_ LBS/MMSCF H<sub>2</sub>S Cont.: 1 PPM ☐ PPM ☐ GRAINS ☐ %  
% Outage: \_\_\_\_\_ Remarks: \_\_\_\_\_

# Chain of Custody

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