



**dig**  
Dolan Integration Group

Geochemistry for Energy

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p: 303.531.2030

**Hydrocarbon Gas Composition and Stable Isotopes  
Data and Interpretation**

**Job #:** 260115137  
**Lab #:** DIG-042614 - DIG-042615  
**Client:** Crestone Peak Resources  
**Well Name:** Grimm Motocross 4-65 23 2A3AUH  
**API #:** 05-005-07571

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SAMPLE INFORMATION			COMPLETE GAS ANALYSIS													HYDROCARBON GAS ANALYSIS (normalized to total HC content)										BTU CONTENT*			
Job Number	Lab Number	Well Name	Sample Type	Sample Date	Sample Time	GC Date	N <sub>2</sub> ppm	O <sub>2</sub> + Ar ppm	CO <sub>2</sub> ppm	C <sub>1</sub> ppm	C <sub>2</sub> ppm	C <sub>3</sub> ppm	iC <sub>4</sub> ppm	nC <sub>4</sub> ppm	iC <sub>5</sub> ppm	nC <sub>5</sub> ppm	C <sub>6</sub> + ppm	C <sub>7</sub> + ppm	He ppm	H <sub>2</sub> ppm	C <sub>1</sub> mol%	C <sub>2</sub> mol%	C <sub>3</sub> mol%	iC <sub>4</sub> mol%	nC <sub>4</sub> mol%	iC <sub>5</sub> mol%	nC <sub>5</sub> mol%	C <sub>6</sub> + mol%	Total Gas BTU/ft <sup>3</sup>
260115137	DIG-042614	Grimm Motocross 4-65 23 2A3AUH	Bradenhead gas	12/18/25		1/16/2026	11693	1638		80800	106476	47193	6529	11093	2399	2138	784		422		87.0	10.85	0.83	0.86	1.12	0.30	0.22	0.08	1107
260115137	DIG-042615	Grimm Motocross 4-65 23 2A3AUH	Production gas	12/18/25		1/16/2026	21709	962		828345	87282	38759	5161	7814	1751	1183	471				85.3	8.99	3.99	0.53	0.80	0.18	0.12	0.05	1152

SAMPLE INFORMATION			HYDROCARBON RATIOS			STABLE ISOTOPE ANALYSIS															
Job Number	Lab Number	Well Name	Sample Type	Sample Date	Sample Time	Total HC ppm	Wetness % C <sub>2</sub> to C <sub>7</sub>	C <sub>2</sub> /C <sub>1</sub> -C <sub>7</sub> mol/mol	Balance Ratio C <sub>2</sub> +C <sub>3</sub> /C <sub>4</sub> -C <sub>7</sub>	Mass Spec Date	δ <sup>13</sup> C <sub>1</sub> ‰ VPDB	δ <sup>13</sup> C <sub>2</sub> ‰ VPDB	δ <sup>13</sup> C <sub>3</sub> ‰ VPDB	δ <sup>13</sup> C <sub>4</sub> ‰ VPDB	δ <sup>13</sup> C <sub>5</sub> ‰ VPDB	δ <sup>13</sup> C <sub>6</sub> ‰ VPDB	δ <sup>13</sup> C <sub>7</sub> ‰ VPDB	δ <sup>13</sup> CO <sub>2</sub> ‰ VPDB	δD ‰ VSMOW	Comments	
260115137	DIG-042614	Grimm Motocross 4-65 23 2A3AUH	Bradenhead gas	12/18/25		981000	18.4	2.2	1.1	1/13/2016	-18.4	-32.0	-28.7							-2.26	
260115137	DIG-042615	Grimm Motocross 4-65 23 2A3AUH	Production gas	12/18/25		920766	16.7	6.6	16.7	1/13/2026	-20.8	-34.4	-30.6							-2.61	

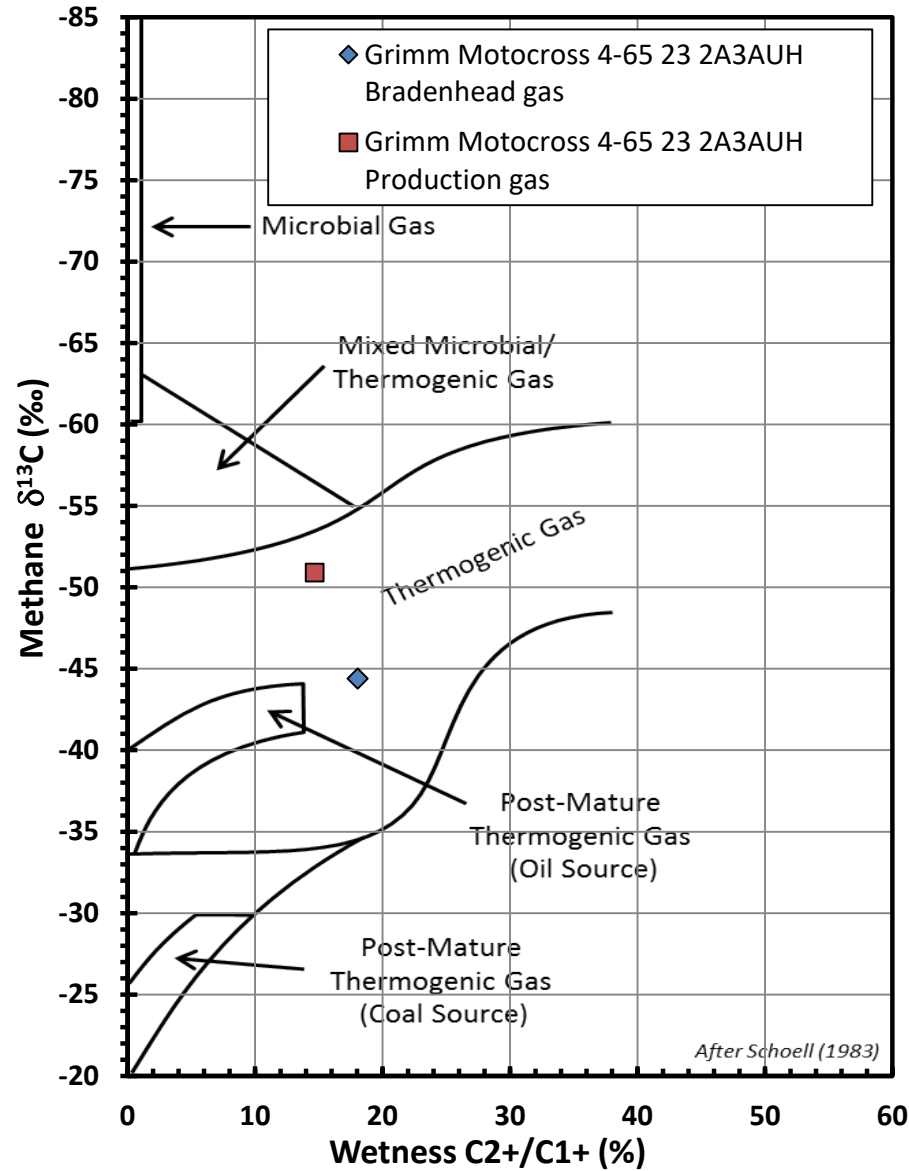
Stable isotope results based on multi-point laboratory calibration  
 low signal; interpret with caution  
 Precision δ<sup>13</sup>C ±0.5 ‰  
 Precision δD ±5 ‰

SPECIFIC GRAVITY*	
Total Gas Spec Grav	HCs only Spec Grav
0.850	0.854
0.920	0.920

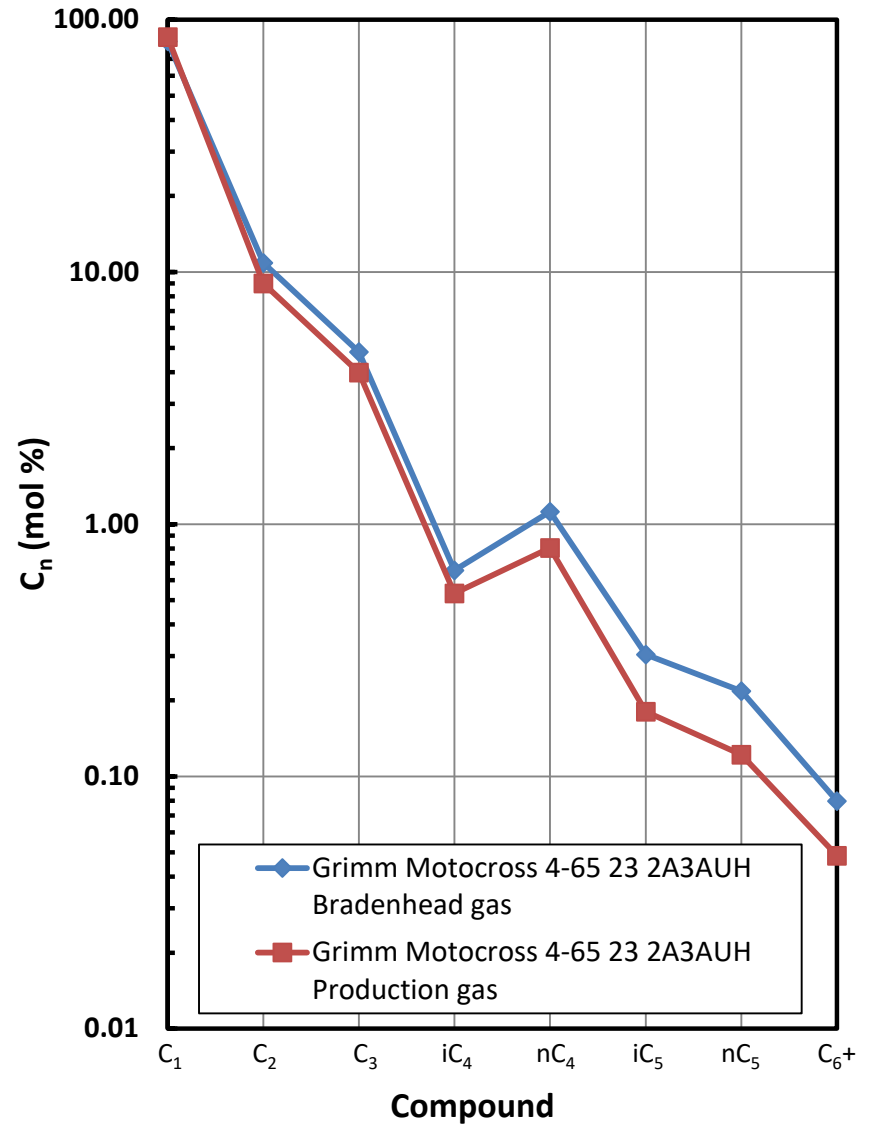
\* As ideal gas, with gas concentrations normalized to 100%; calculations based on GPA 2145-09 physical constants.

**INTERPRETIVE PLOTS**

**Methane  $\delta^{13}\text{C}$  vs Wetness Genetic Classification Plot**

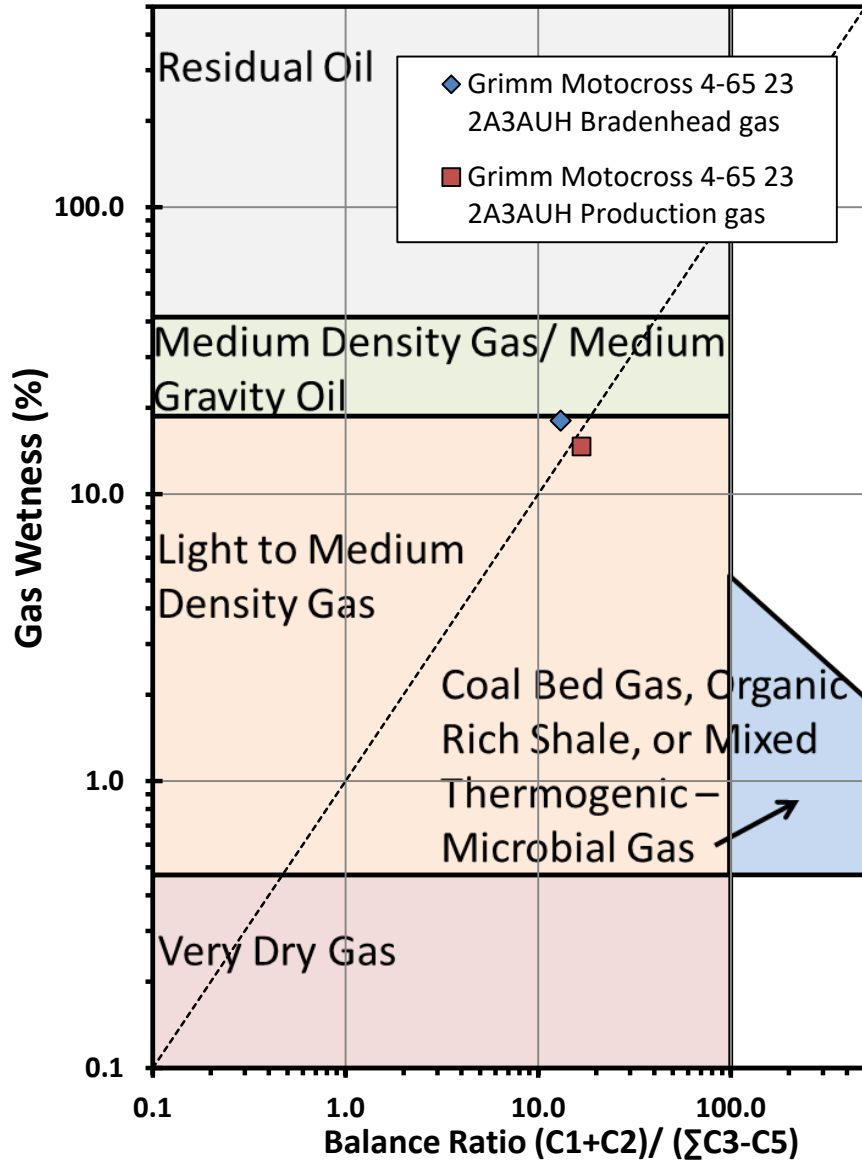


**Hydrocarbon Composition Plot**

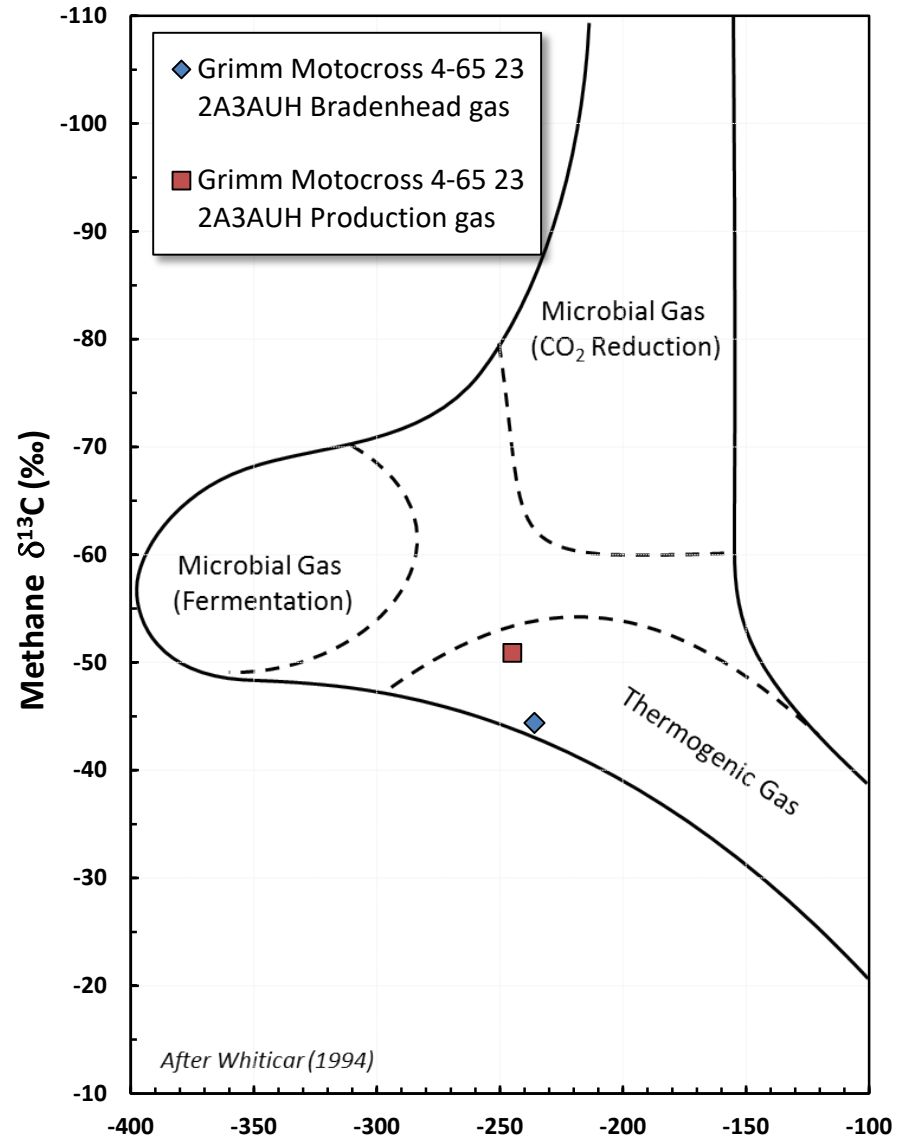


**INTERPRETIVE PLOTS**

**Haworth Ratio Plot - Characterization of Hydrocarbon Type**



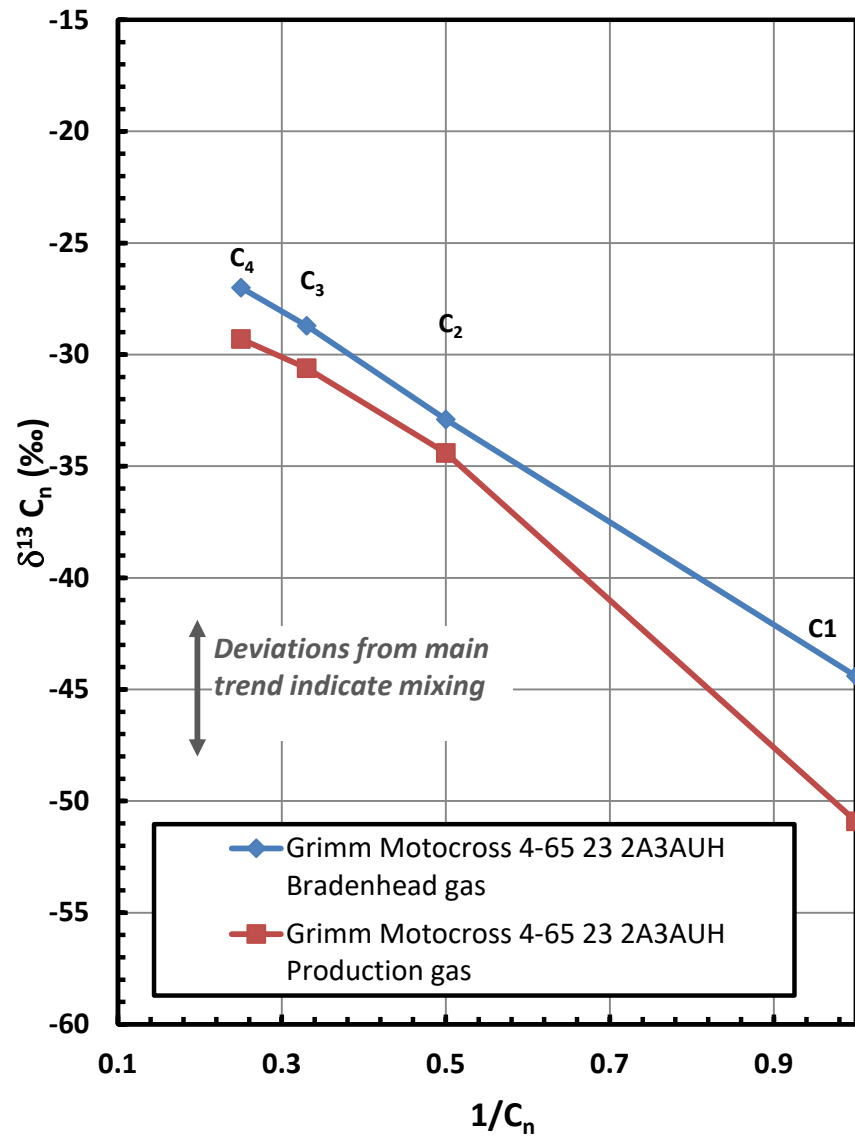
**Methane  $\delta^{13}\text{C}$  vs  $\delta\text{D}$  Genetic Classification Plot**



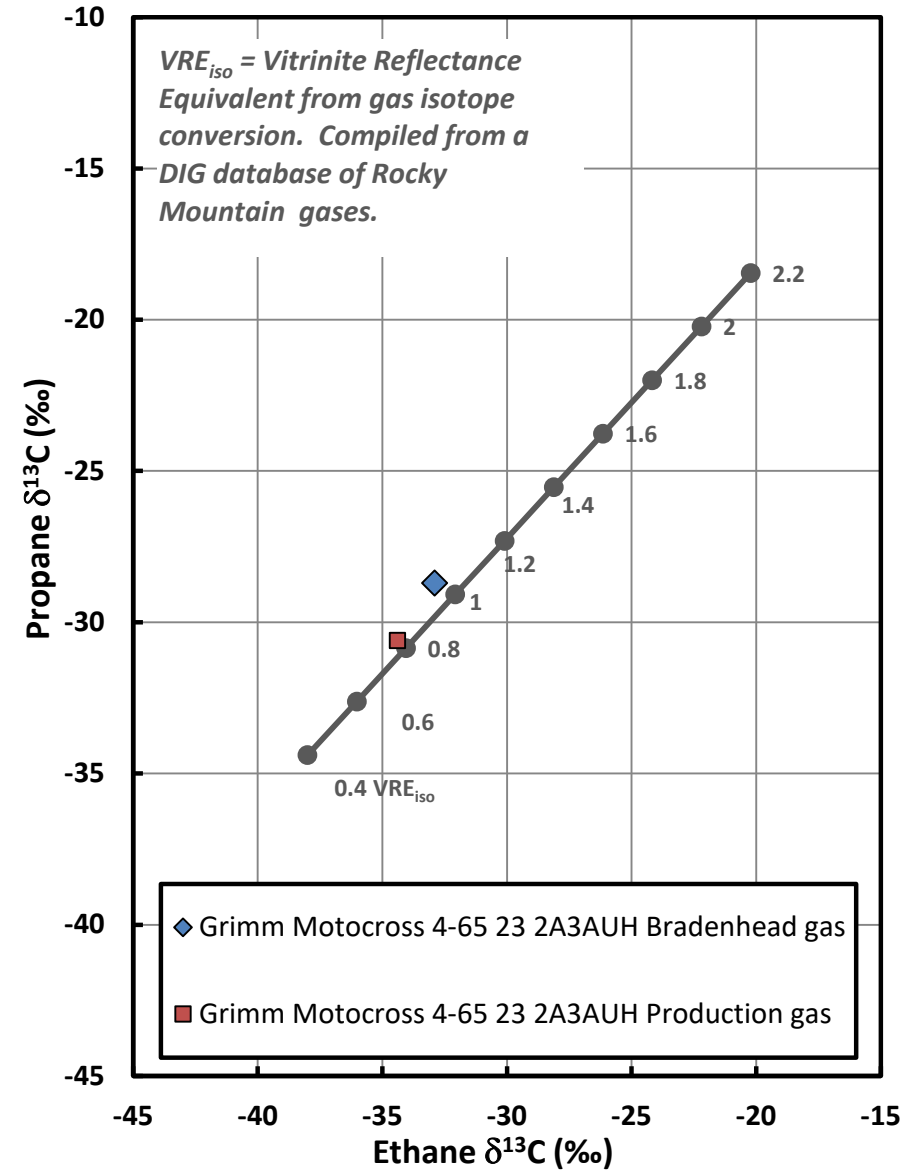
**Methane  $\delta D$  (‰)**

# INTERPRETIVE PLOTS

### Mixing Plot

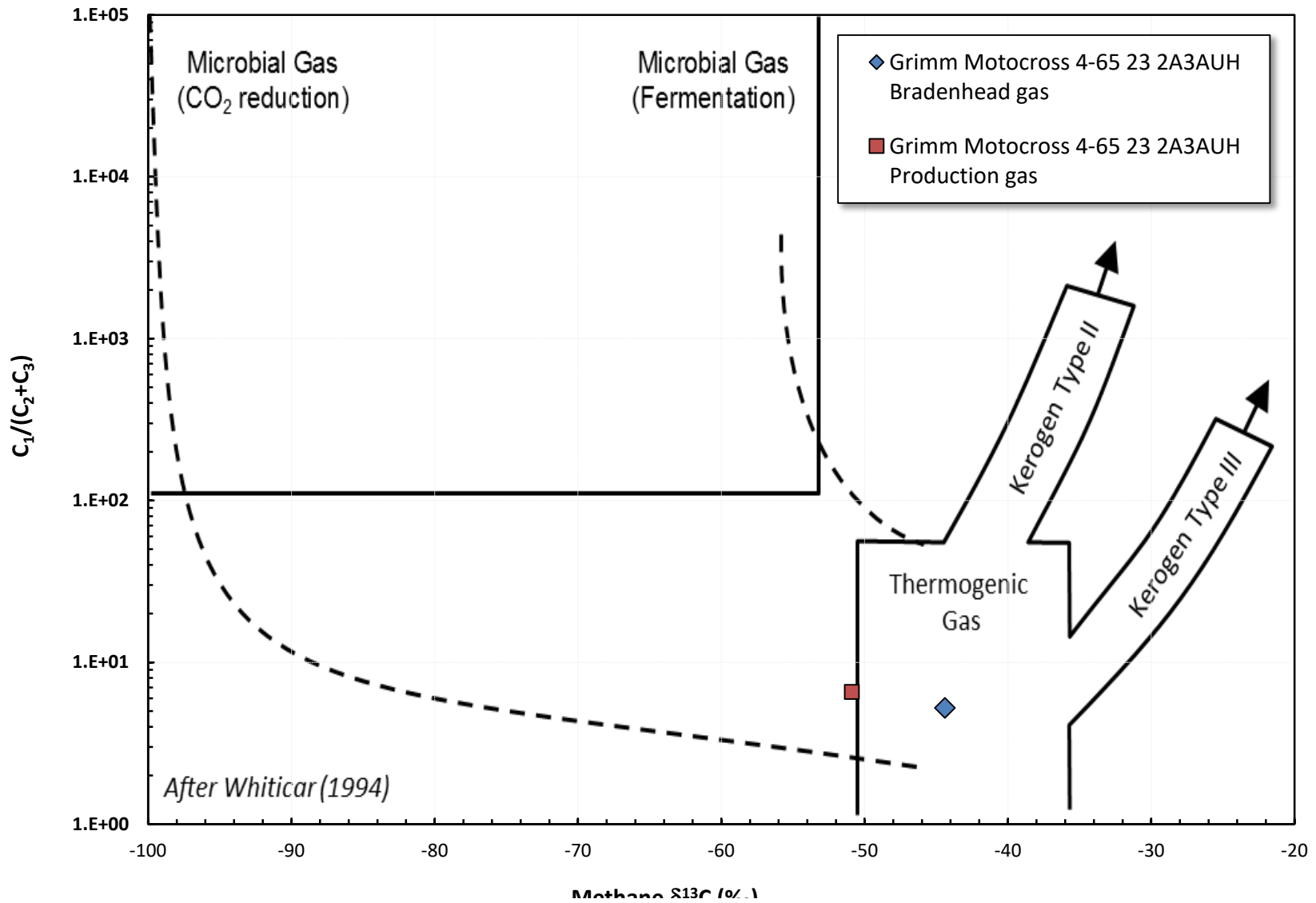


### Ethane - Propane Maturity Plot



**INTERPRETIVE PLOTS**

**Methane  $\delta^{13}\text{C}$  vs  $\text{C}_1/(\text{C}_2+\text{C}_3)$  Genetic Classification Plot**



vietname o~c (%)







				Other
				Other

<b>Chain of Custody Record</b>
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<b>Comments:</b>
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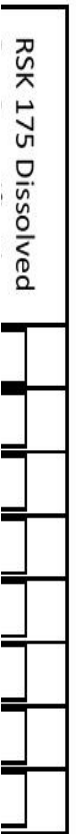
Relinquished by Signature	Company	Date	Time
cmclure <small>Digitally signed by cmclure Date: 2026.01.15 14:51:12 -07'00'</small>	Civitas Resources	1/15/26	

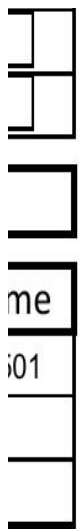
\*Gas composition vs RSK-175 - Gas composition is a basic analysis of the concentration (ppm) of gases within the calculations to give the total dissolved gas of each species in the water sample (mg/L). Why one or the other? Give us the exact total of gas present in the sample (headspace and dissolved in the water). Questions? Give us a call at 303-303-3030

\*\* Rush and Expedited Rush turnaround time analysis will incur additional costs at 2x and 3x the standard turnaround time









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