

**Lab #:** 998328

**Job #:** 65228

**Sample Name:** Benjamin Federal 33-4B (K28NW) Braden Head

**Company:** QB Energy Operating, LLC

**API/Well:** 05-045-20182

**Container:** IsoTube Single Valve

**Location:** Federal Lease # COC-54737

**Sampling Point:** 420552

**Date Sampled:** 09/09/2025

**Date Received:**  
01/09/2026

**Date Reported:**  
02/16/2026

Component	Chemical mol%	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{18}\text{O}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide	nd				
Helium	0.0041				
Hydrogen	0.0094				
Argon	0.0066				
Oxygen	0.13				
Nitrogen	0.45				
Carbon Dioxide	3.02	-3.5			
Methane	88.64	-38.4	-185		
Ethane	5.28	-27.1			
Ethylene	nd				
Propane	1.45	-25.3			
Propylene	nd				
Iso-butane	0.347	-25.2			
N-butane	0.288	-24.2			
Iso-pentane	0.126	-25.1			
N-pentane	0.0800	-24.5			
Hexanes +	0.173				

Total BTU/cu.ft. dry @ 60° F & 14.73psia, calculated: 1067

Specific gravity, calculated: 0.643

Remarks:

Billing Code: 204665, Major/Minor Code: 8000..126