

Lab #: 239878 Job #: 17692  
 Sample Name/Number: HW60  
 Company: TechLaw, Inc.  
 Date Sampled: 3/05/2012  
 Container: Dissolved Gas Bottle  
 Field/Site Name: Case# R33917  
 Location:  
 Formation/Depth:  
 Sampling Point:  
 Date Received: 3/13/2012 Date Reported: 4/03/2012

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{18}\text{O}$ ‰
Carbon Monoxide -----	nd			
Hydrogen Sulfide -----	na			
Helium -----	0.0233			
Hydrogen -----	nd			
Argon -----	0.516			
Oxygen -----	0.066			
Nitrogen -----	29.47			
Carbon Dioxide -----	0.053			
Methane -----	69.86	-35.20	-193.0	
Ethane -----	0.0119			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	0.0001			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			
Water -----			-66.1	-9.88

Total BTU/cu.ft. dry @ 60deg F & 14.7psia, calculated: 708

Specific gravity, calculated: 0.681

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.