

Lab #: 228845 Job #: 16954  
 Sample Name/Number: Peterson WW  
 Company: Colorado Oil & Gas Conservation  
 Date Sampled: 11/15/2011  
 Container: Dissolved Gas Bottle  
 Field/Site Name: Complaint #200327803  
 Location: Weld Co., CO  
 Formation/Depth:  
 Sampling Point:  
 Date Received: 12/04/2011 Date Reported: 12/19/2011

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{18}\text{O}$ ‰
Carbon Monoxide -----	nd			
Hydrogen Sulfide -----	na			
Helium -----	na			
Hydrogen -----	nd			
Argon -----	1.45			
Oxygen -----	6.07			
Nitrogen -----	92.10			
Carbon Dioxide -----	0.20			
Methane -----	0.181			
Ethane -----	0.0006			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.7psia, calculated: 2 Specific gravity, calculated: 0.982

Remarks:

Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.69

\*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

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. %.