

Lab #: 196079 Job #: 13913  
 Sample Name/Number: Burge WW  
 Company: Colorado Oil & Gas Conservation  
 Date Sampled: 10/06/2010  
 Container: Dissolved Gas Bottle  
 Field/Site Name: Complaint 200272771  
 Location: Huerfano County, CO  
 Formation/Depth:  
 Sampling Point:  
 Date Received: 10/09/2010 Date Reported: 11/08/2010

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{18}\text{O}$ ‰
Carbon Monoxide -----	0.031			
Hydrogen Sulfide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	1.17			
Oxygen -----	10.27			
Nitrogen -----	83.14			
Carbon Dioxide -----	1.47			
Methane -----	3.92	-28.69	-76.4	
Ethane -----	0.0015			
Ethylene -----	nd			
Propane -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			
Water -----			-106.3	-13.61
Dissolved Inorganic Carbon -		-21.96		

Total BTU/cu.ft. dry @ 60deg F & 14.7psia, calculated: 40

Specific gravity, calculated: 0.978

Remarks: Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.48

\*Addition of helium negates the ability to detect native helium or hydrogen.

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