

Lab #: 191470 Job #: 13424  
Sample Name: King WW Co. Lab#:  
Company: Colorado Oil & Gas Conservation  
Date Sampled: 7/20/2010  
Container: Dissolved Gas Bottle  
Field/Site Name: King Complaint #200262233  
Location: Weld County, CO  
Formation/Depth:  
Sampling Point:  
Date Received: 7/21/2010 Date Reported: 8/26/2010

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	0.008			
Hydrogen Sulfide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	1.49			
Oxygen -----	4.75			
Nitrogen -----	92.69			
Carbon Dioxide -----	1.04			
Methane -----	0.0189			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	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: 0  
Specific gravity, calculated: 0.986

Remarks: Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.67  
\*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 is relative to VSMOW. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.