

Lab #: 313118 Job #: 19623
 Sample Name/Number: 007.095-101812
 Company: Shaw Environmental & Infrastructure
 Date Sampled: 10/18/2012
 Container: Dissolved Gas Bottle
 Field/Site Name: 147497
 Location: LDNR/Bayou Corne
 Formation/Depth:
 Sampling Point:
 Date Received: 10/24/2012 Date Reported: 11/19/2012

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	δD ‰	$\delta^{18}\text{O}$ ‰
Carbon Monoxide -----	nd			
Hydrogen Sulfide -----	na			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.688			
Oxygen -----	12.58			
Nitrogen -----	56.13			
Carbon Dioxide -----	1.50			
Methane -----	28.73	-66.96	-190.5	
Ethane -----	0.302	-26.58		
Ethylene -----	nd			
Propane -----	0.0538	-23.0		
Propylene -----	nd			
Iso-butane -----	0.0069			
N-butane -----	0.0041			
Iso-pentane -----	0.0010			
N-pentane -----	0.0003			
Hexanes + -----	0.0004			

Remarks:

** Propane isotopes obtained online via GC-C-IRMS
 Tritium: <1.00 TU

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. %.