

Lab #: 218736  
 Sample Name: Camp UPRR 32-25 #2  
 Company: LT Environmental  
 Date Sampled: 8/23/2011  
 Container: IsoTube®  
 Field/Site Name: PO 014211159

Job #: 16094  
 Co. Lab#:

API 05-123-13797

Location:

Formation/Depth:

Sampling Point:

Date Received: 8/25/2011

Date Reported: 9/16/2011

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Hydrogen Sulfide -----	na			
Helium -----	0.0110			
Hydrogen -----	0.0382			
Argon -----	nd			
Oxygen -----	0.006			
Nitrogen -----	0.50			
Carbon Dioxide -----	1.96			
Methane -----	77.14	-47.06	-228.0	
Ethane -----	11.95	-31.16		
Ethylene -----	nd			
Propane -----	4.88	-27.35		
Iso-butane -----	0.818			
N-butane -----	1.48			
Iso-pentane -----	0.512			
N-pentane -----	0.440			
Hexanes + -----	0.261			

Total BTU/cu.ft. dry @ 60deg F & 14.7psia, calculated: 1246

Specific gravity, calculated: 0.738

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. %.