ISOTECH
ISOTECH LABORATORIES INC

ANALYSIS REPORT

Lab #: 265773 Job #: 19339
Sample Name: 497-TB-092312-I1 Co. Lab#:
Company: Dept. Nat. Resources - Louisiana
Date Sampled: 9/23/2012
Container: Cali-5-Bond Bag
Field/Site Name: Texas Brine Well
Location:
Formation/Depth:
Sampling Point:
Date Received: 9/28/2012 Date Reported: 10/02/2012

Component	Chemical mol. %	$\delta^{13}C$ ‰	δD ‰	$\delta^{15}N$ ‰
Carbon Monoxide	na			
Hydrogen Sulfide	na			
Helium	na			
Hydrogen	na			
Argon	na			
Oxygen + Argon	na			
Nitrogen	na			
Carbon Dioxide	na			
Methane	na			
Ethane	na			
Ethylene	na			
Propane	na			
Propylene	na			
Iso-butane	na			
N-butane	na			
Iso-pentane	na			
N-pentane	na			
Hexanes +	na			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0
Specific gravity, calculated: 0

Remarks: Sample Compromised. Bag was over filled creating a leak.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon 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. %.

ISOTECH
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ANALYSIS REPORT

Lab #: 265774 Job #: 19339
Sample Name: 497-TB-092312-I2 Co. Lab#:
Company: Dept. Nat. Resources - Louisiana
Date Sampled: 9/23/2012
Container: Cali-5-Bond Bag
Field/Site Name: Texas Brine Well
Location:
Formation/Depth:
Sampling Point:
Date Received: 9/28/2012 Date Reported: 10/02/2012

Component	Chemical mol. %	$\delta^{13}C$ ‰	δD ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd			
Hydrogen Sulfide	na			
Helium	nd			
Hydrogen	nd			
Argon	0.0195			
Oxygen	0.031			
Nitrogen	1.30			
Carbon Dioxide	1.57			
Methane	92.33	-41.46	-152.1	
Ethane	3.25	-26.73		
Ethylene	nd			
Propane	1.02	-23.19		
Propylene	nd			
Iso-butane	0.212	-23.40		
N-butane	0.155	-20.57		
Iso-pentane	0.0419			
N-pentane	0.0210			
Hexanes +	0.0477			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 1037
Specific gravity, calculated: 0.608

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon 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. %.