

Isotech Gas Data

Job 10874
Dimock Township

Isotech Lab No.	Sample Name	Field Name	GC date	He %	H ₂ %	Ar %	O ₂ %	CO ₂ %	N ₂ %	CO %	C ₁ %	C ₂ %	C ₂ H ₄ %	C ₃ %	iC ₄ %	nC ₄ %	iC ₅ %	nC ₅ %	C ₆ + %	MS date	δ ¹³ C ₁ ‰	δDC ₁ ‰	δ ¹³ C ₂ ‰	δ ¹⁵ N ‰	Specific Gravity	BTU
153743	Gesford 3	Dimock	1/13/2009	0.0315	0.140	0.115	2.61	0	9.80	0	85.59	1.65	0	0.0599	0	0.0040	0	0	0	1/13/2009	-31.09	-173.8	-34.83	-0.5	0.618	899

Chemical analysis based on standards accurate to within 2%



ANALYSIS REPORT

Lab #: 153743 Job #: 10874
Sample Name: Gesford 3 Co. Lab#:
Company: Penn. Dept. of Environmental Res.
Date Sampled: 1/08/2009
Container: Cali-5-Bond Bag
Field/Site Name: Dimock
Location: Dimock Township
Formation/Depth:
Sampling Point:
Date Received: 1/13/2009 Date Reported: 1/16/2009

Component	Chemical mol. %	Delta 13C per mil	Delta D per mil	Delta 15N per mil
Hydrogen Sulfide -----	nd			
Helium -----	0.0315			
Hydrogen -----	0.140			
Argon -----	0.115			
Oxygen -----	2.61			
Nitrogen -----	9.80			
Carbon Dioxide -----	nd			
Methane -----	85.59	-31.09	-173.8	
Ethane -----	1.65			
Ethylene -----	na			
Propane -----	0.0599			
Iso-butane -----	nd			
N-butane -----	0.0040			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.7psia, calculated: 899
Specific gravity, calculated: 0.618

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. %. Chemical analysis based on standards accurate to within 2%