## Knapp Acquisitions & Production PA Shale Gas Blog

An insider's perspective on the rapid development of the Marcellus Shale in Western Pennsylvania



SATURDAY, JANUARY 7, 2012

## Wet Gas vs. Dry Gas - Do you know what these are? If not, you need to!

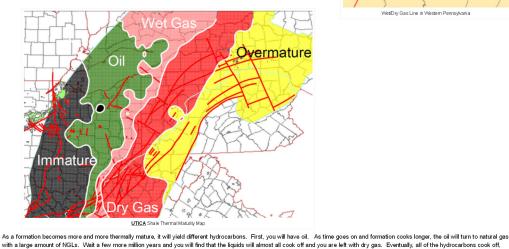
Wet gas, dry gas, hot gas, cold gas, one fish two fish red fish blue fish. Condensates. NGL's. Pentanes, Butanes, and Propanes, OH MY1

If you're watching Marcellus, you may have heard these terms. If you don't fully understand them, you need to because they are of vital importance

First of all, we have to define "natural gas" Natural gas is a gas comprised of multiple hydrocarbons, the most prevalent being methane. The higher the methane concentration, the "drier" or "colder" the gas is. Other constituents of natural gas are evaporated liquids like ethane and butane, pentane, etc. We refer to these collectively as natural gas liquids (NGLs), or "condensates". The higher the percentage of NGL's, the "hotter" or "wetter" the gas is. NGL's must be stripped out of the gas before it can be put in a pipeline and used. Ethane, which is prevalent in Western PA wet gas, is the feedstock for Ethylene, which is what we use to make plastics.

Now, let's discuss at WHY some areas have NGL's and others do not.

Time to look at more definitions: There are two different types of methane. Biogenic and Thermogenic. Biogenic methane is Thermogenic methane, as the name implies, is generated by heat. Millions of years ago, Western Pennsylvania was an ocean. Organic matter settled to the bottom and over the millenia the ocean dried up and was covered with thousands of feet of sediment. The pressure of all this sediment over top of it creates heat. It is this heat that "cooks" the hydrocarbons out of the organic material. Just how much it has been cooked is referred to as Thermal Maturity.







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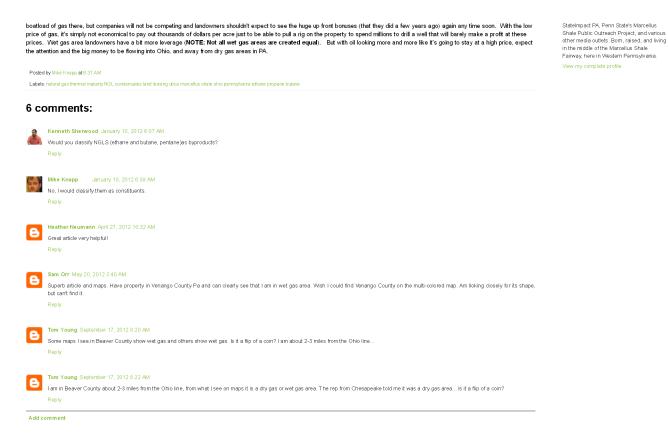
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Mike Knapp President of Knapp Acquisitions &

working with landowners to help them develop their resources in a respectful and environmentally conscious manner. Ive been featured in the New York Times. Pittsburgh Post-Gazette, Pittsburgh Tribune-Review, National Public Radio.



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