The Truth About Water and Energy

October, 2013

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The Truth about Water

1. Water is where you find it, Not where you need it!

2. To use it you must either transport or treat it
The Perception About Water & Energy

Six Billion bbls of produced water are injected into disposal wells each year in Texas.
What is the public perception of the O&G Industry?
How does industry view regulators?
How Does the Public View Regulators?
How do regulators view regulators?
Texas Production

- 400,000,000 BO per year
- 8 TCF Gas per year
- 450,000 existing wellbores
- Over 1,000,000 wells drilled since early 1900’s.
- 20,000 directional wells hydrofractured
- No “proven” groundwater contamination from hydrofracturing
Water & energy: The Issues & Arguments

- Hydrologic Cycle
- Climate Change
- Infrastructure
- Seismic Risk
- Sinkholes and subsidence
- Cleanup/Toxicity
- Eminent Domain
- State vs. Federal vs. Local Authority
- RCRA and the Regulatory Framework
- Surface Estate vs. Mineral Ownership
- Over-regulation vs. Under-regulation
- Politics
Hydrologic Cycle

Perception: once fresh water is converted to frac fluid, flowed back as produced water, and disposed of, it is gone forever.
Climate Change

perception: energy created using water is dirty energy

Produced water causes climate change?
Infrastructure; Roads & Haulers

perception: Energy and water is poorly managed
Seismic

Does produced water injection cause earthquakes?
Sinkholes and Subsidence

perception: removing fluids like produced water from under the ground causes subsidence, pumping fluids back underground causes sinkholes

Produced water, subsidence, and sinkholes?
Cleanup: How toxic is energy and water nexus & who pays?

What price should we pay for clean, cheap and abundant energy?
Eminent Domain:
politicians and regulators can’t ignore this...
Federal vs State vs Local Control

“Can’t we all just get along?”
RCRA & the Regulatory Framework

The Holy Grail
Surface Estate vs. Mineral Ownership, serious disconnect between groups. This is a global concern.
Over-regulation vs. Under-regulation:

“to be or not to be, that is the question”
Politics & Polarization:
Hard boiled issue #3, A World-wide phenomenon that can not be solved solely by science.
Water + Energy = The World

- **Energy Needs Water** *(hydrofracture technology)*

- **Water Needs Energy** *(water is where you find it, not where you need it)*

- **The World Needs Both**
Political problems require a political solution
Scientific problems require a scientific solution
Fact problems require due process
Economic & Energy policy debates deserve “REGULATORY DÉTENTE”
A Call for “Regulatory Détente”

détente

*noun* \dā-'tänt\: “is the easing of strained relations, especially in a political situation”
M. A. D.

- Mutually
- Assured
- Destruction
Quit eating *lotus blossoms* and give me some examples? How do we get there from here? What are some *Common Denominators*?

1. **Regulations - Permit By Rule**: business needs a stable regulatory landscape, RRC Recycle Rule

2. **$$$. - Access to funding**: TX SB1624 (Water Bank)

3. **A Voice - TWRA**: We all have a need to be heard
The Truth About Water and Energy

A call for

“REGULATORY DÉTENTE”

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