



HOW SHOULD HYDRAULIC FRACTURING BE REGULATED?

Columbia Law School
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President



Development Solutions
Balancing Environment, Community & Economy
a division of Southwestern Energy



Surface Considerations

Subsurface Considerations

What Should Be Regulated?



Subsurface Considerations

A geological cross-section of a landscape. The top part shows a green, hilly landscape under a blue sky. Below the surface, various layers of rock and sediment are visible, including a prominent dark grey layer with horizontal fractures. Two blue callout boxes with white text are overlaid on the rock layers.

**Protecting Underground
Water Resources**

Frac Fluid Disclosure

What Should Be Regulated?



Surface Considerations

Air Emissions

Surface Impact

- Drilling Locations
- Truck Traffic & Road Damage
- Infrastructure

**Water Supply
Water Handling
Water Reuse & Disposal**

Who Should Regulate?



1. Are the impacts of the regulated activity local, regional or multi-state?
2. Are the risks associated with the regulated activity the same from state-to-state?
3. Are the proposed solutions for effectively managing these risks the same from state-to-state?
4. Does the regulating authority require any special knowledge or expertise concerning regional or local conditions in order to effectively regulate the activity?
5. Are there any federal/state or state/local preemption issues?

Current Regulatory Environment



**Public Distrust
and Fear**



**Natural Gas
Industry**



**THE
PERFECT
STORM**

**Certain
Environmental
Activists/Groups**



**Politics
Guiding
Policy**





- Dial Down the Rhetoric
- Identify the Real Obstacles to Responsible Development of this Resource
- Develop Workable Solutions to Overcome these Obstacles



COLLABORATION AND RISK COMMUNICATION





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