



Opening Comments: An Industry Perspective on the Workshop Topic & Goals

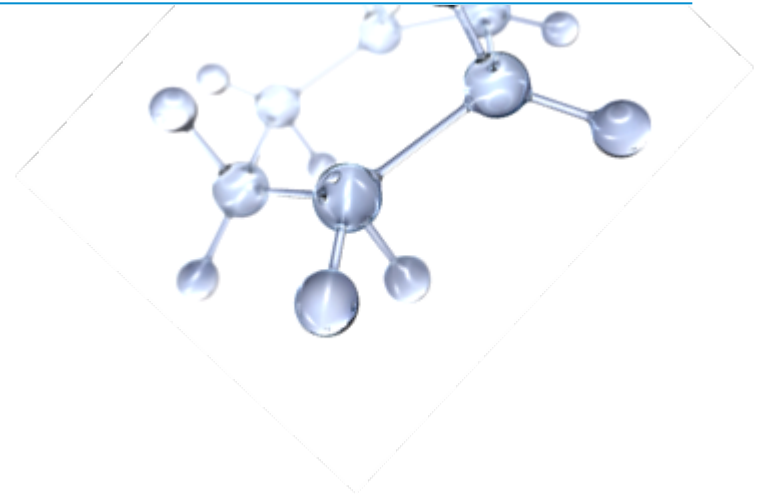
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EPA Technical Workshop on Well Construction/Operation and Subsurface Modeling

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Keys To Success



Managing Risks

- Responsible operations philosophy
- Effective risk management framework

Managing Uncertainties

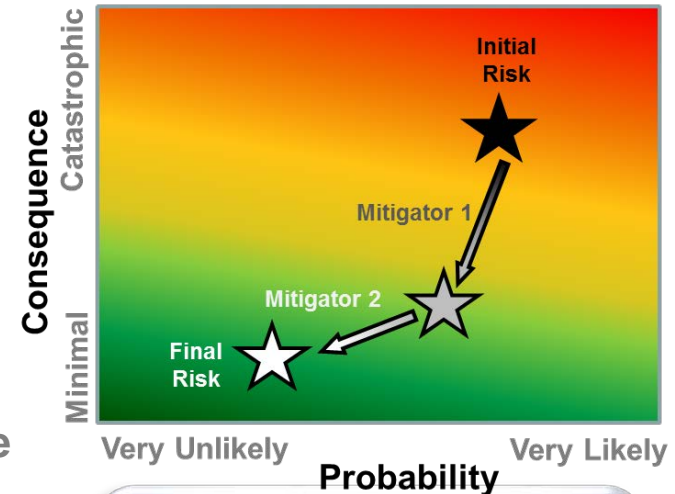
- Accounting for subsurface complexity
- Calibrating models with appropriate data
- Evaluating results based on risk mitigation, and the probabilities and consequences of the outcome

Generating Opportunities

- Energy security
- Job and revenue growth
- Emissions reduction

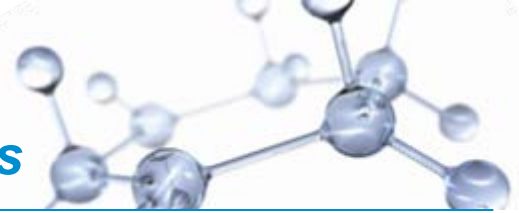
Collaborating with Stakeholders & Regulators

- Working with local communities to manage impacts
- Transparency and reasonable regulations to enable safe and sound development

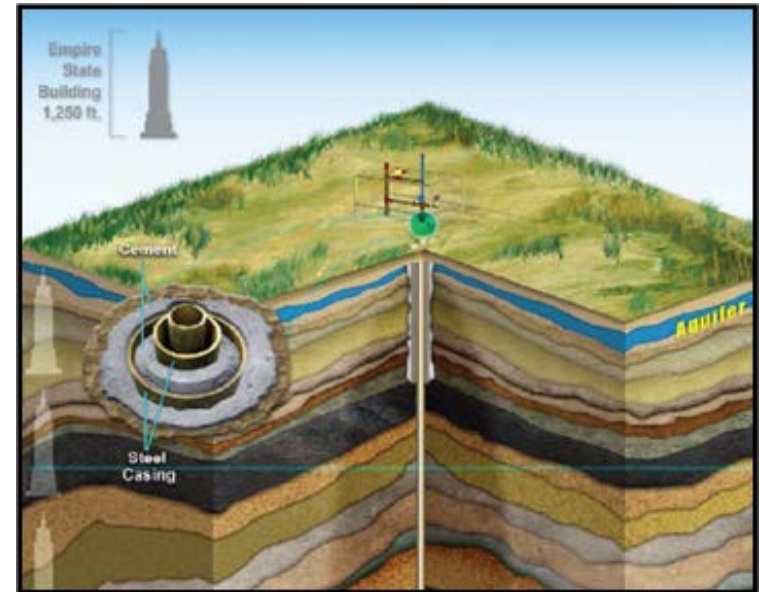


Workshop Collaboration

A Unique Opportunity for Industry Participants



- Build relationships with all workshop participants
- Actively listen and learn from all stakeholders
- Provide industry experience and input that will further the study goals and offer practical insight in to the process of hydraulic fracturing
- Support discussions that are scientifically sound and articulated in a collaborative manner and given appropriate context
- Support adoption and use of common vocabulary to facilitate a constructive scientific discussion



Citizen "Real World" Concerns	Industry's "Technical" Responses
Will my water be contaminated?	Well design and integrity Surface water management
Will my children get sick?	Exposure pathways
Will my faucet water catch on fire?	Thermogenic and biogenic methane