

Hydraulic Fracturing Regulation: State Issues, State Solutions

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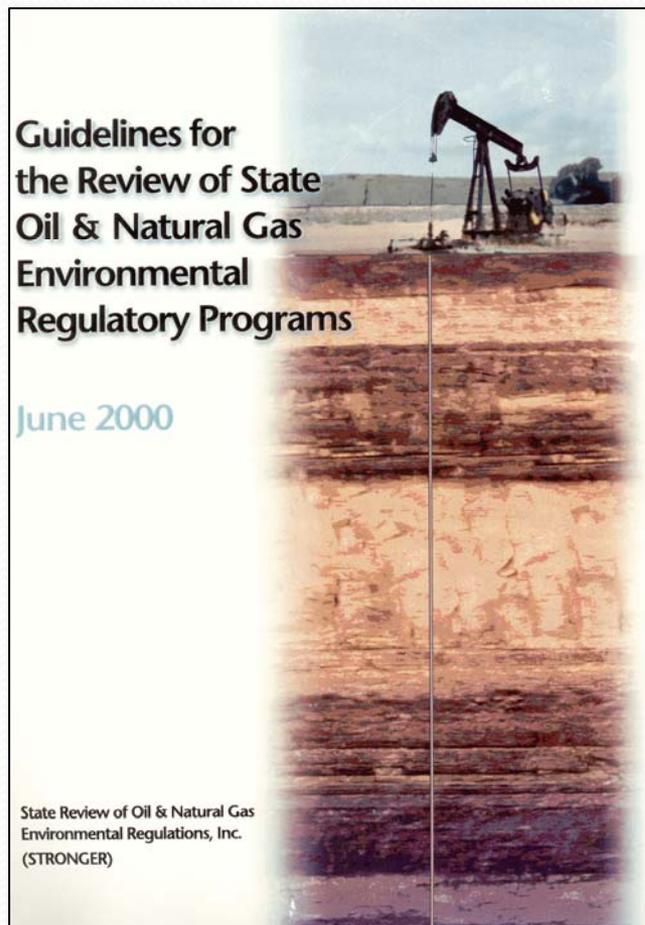
2011 Woodford Summit

March 29-30, 2011

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State Review of Oil and Natural Gas Environmental Regulations, Inc.

- Stakeholders
 - States
 - Industry
 - Environmental Organizations
- Supporters
 - IOGCC
 - GWPC
 - Federal agencies (EPA, DOE)



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Status of Reviews



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Strengths of Review Process

- All work performed by stakeholder teams
- Guidelines recognize regional differences
- Focus on program performance
- Reviews document program strengths and opportunities for improvement
- Follow-up reviews are conducted
- Process can fill regulatory gaps
- Process is a model for evaluation of other environmental regulatory programs

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Benefits of Review Process

- State control of E&P waste programs
- Improved state oil and gas environmental regulatory programs
- Process for continuing program improvement
- Opportunity to share and promote new or unique concepts and ideas
- Flexible reviews to meet state needs
- Great educational process for all participants



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Hydraulic Fracturing Guidelines

- Key elements of effective state regulatory programs
- Developed by stakeholder workgroup (state, industry, and environmental representatives)
- Submitted to STRONGER in January 2010

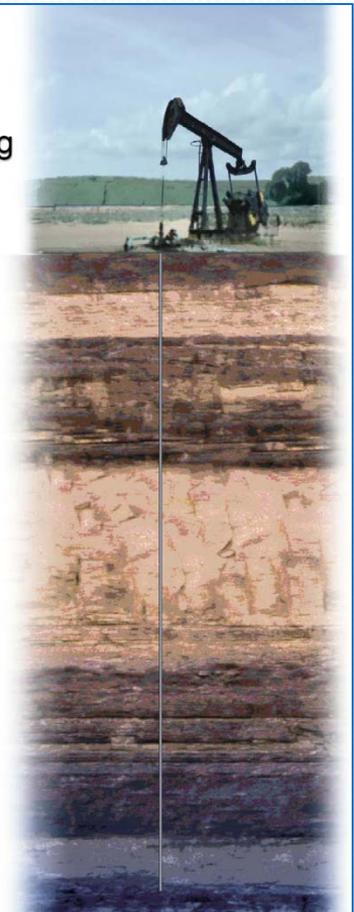
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Hydraulic Fracturing Reviews

- Conducted by stakeholder teams using the guidelines
- Current status
 - Completed in Pennsylvania, Ohio, Oklahoma, and Louisiana
 - Scheduled for this summer in Colorado

Oklahoma
Hydraulic Fracturing
State Review

January, 2011



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Content of Reports

- Executive summary
 - Highlights program strengths
 - Summarizes key recommendations for improvement
- Discussion of program elements
- Findings and recommendations
- Appendix
 - Response to questionnaire (state's description of its program)

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- Key issues vary from state to state, *e.g.*,
 - Discharges to streams in PA
 - Urban drilling in OH
 - Recycling pits in OK
 - Groundwater withdrawals in LA
- States have acted to address their key issues

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- Guidelines
- Reports on reviews
- History and accomplishments

