

University of Colorado Law School

Colorado Law Scholarly Commons

Water and Air Quality Issues in Oil and Gas
Development: The Evolving Framework of
Regulation and Management (Martz Summer
Conference, June 5-6)

2014

6-6-2014

SLIDES: The EFD Program: Addressing Environmental Issues and Increasing Environmental Awareness

Richard Haut

Follow this and additional works at: <https://scholar.law.colorado.edu/water-and-air-quality-issues-in-oil-and-gas-development>



Part of the Energy and Utilities Law Commons, Environmental Health and Protection Commons, Environmental Law Commons, Environmental Public Health Commons, Hydraulic Engineering Commons, Natural Resource Economics Commons, Natural Resources Law Commons, Oil, Gas, and Energy Commons, Oil, Gas, and Mineral Law Commons, Science and Technology Law Commons, and the Water Law Commons

Citation Information

Haut, Richard, "SLIDES: The EFD Program: Addressing Environmental Issues and Increasing Environmental Awareness" (2014). *Water and Air Quality Issues in Oil and Gas Development: The Evolving Framework of Regulation and Management (Martz Summer Conference, June 5-6)*.
<https://scholar.law.colorado.edu/water-and-air-quality-issues-in-oil-and-gas-development/25>

Reproduced with permission of the Getches-Wilkinson Center for Natural Resources, Energy, and the Environment (formerly the Natural Resources Law Center) at the University of Colorado Law School.

The EFD Program

*Addressing Environmental Issues
and
Increasing Environmental Awareness*

June 6, 2014





Discussion

The EFD Program

The Process

The Issues

EFD Program

A collaborative effort

Industry

Academia

Government

Environmental Organizations

Team Formed in 2005

Mission

*Provide unbiased science to **identify, develop and transfer** critical, **cost effective** technologies that provide policy makers and industry with ability to develop reserves **safely and environmentally friendly.***

What We Do

*Produce **Enabling Data, Best Practices and Information** to operators, regulators and stakeholders.*





The EFD Team

Co-funded by RPSEA, US Fish and Wildlife, Industry, Environmental Organizations

SPONSORS



MANAGEMENT TEAM



ENVIRONMENTAL ORGANIZATIONS



COLLABORATORS



ALLIANCE MEMBERS

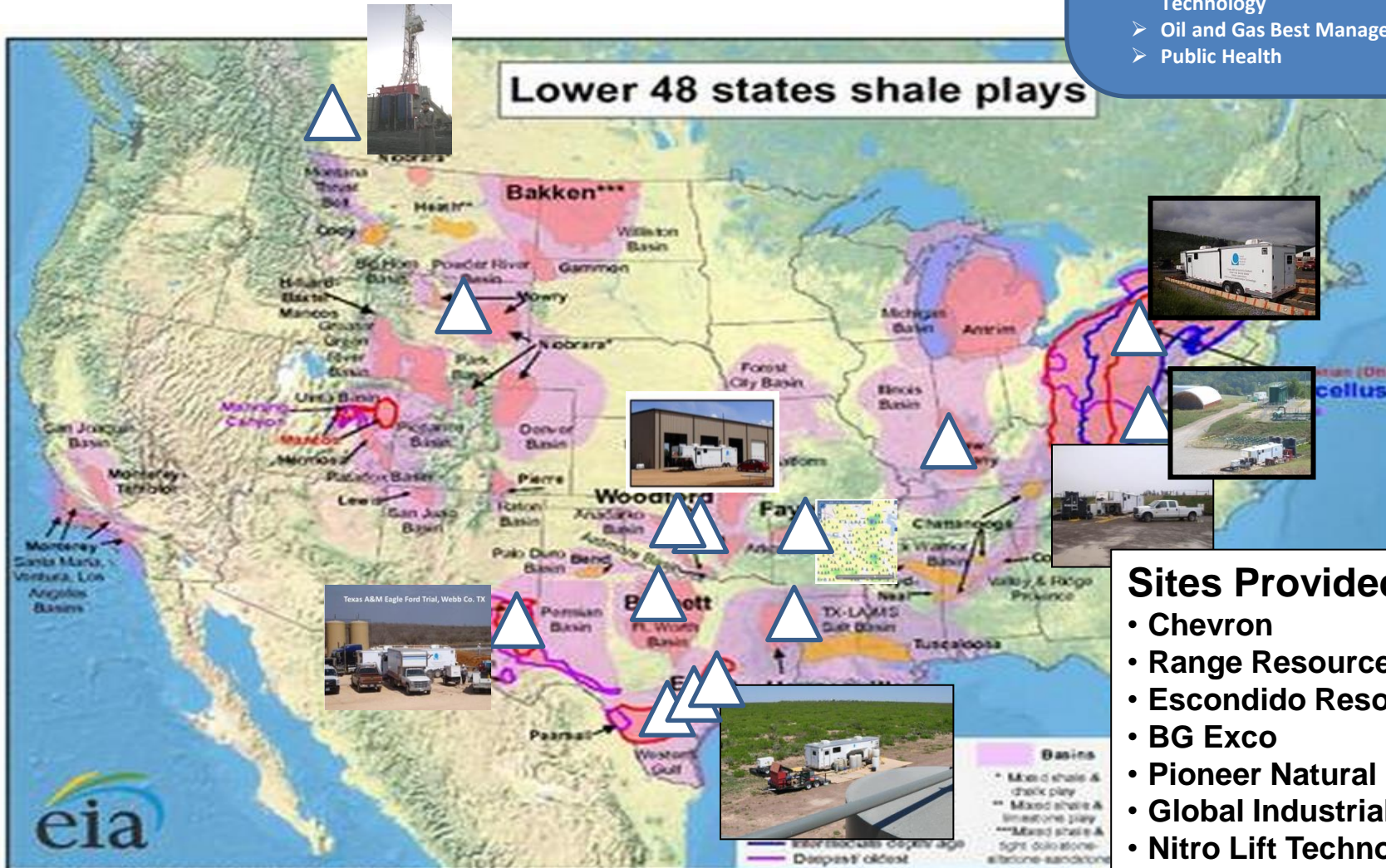


Thank-you for your support!



EFD Field Trials

- Eagle Ford Characterization
- Water Resource Management
- Drilling and Completion
- Wildlife/Bio-Environment Mitigation
- Community Issues
- Air Quality/Emissions
- Complementary Research
 - Land Use Site Selection Information Technology
 - Oil and Gas Best Management Practices
 - Public Health



- Sites Provided by:**
- Chevron
 - Range Resources
 - Escondido Resources
 - BG Exco
 - Pioneer Natural Resources
 - Global Industrial Water
 - Nitro Lift Technology
 - Others





Process

Problem
Identification

Perform
Research

Transfer
Technology

***Someone has to make money.
Someone has to save money.***



Issues

Funding

- US Department of Energy – Cost share
 - 80/20 for Research
 - 50/50 for Field Trials
- Other Government Agencies
- Industry
- Environmental NGO's
- Foundations

Sharing

- Trade Secrets
- Intellectual Property

Team

- Who?
- Why?
- Where?
- How?
- Can they get along?

Problem Identification

Perform Research

Transfer Technology

Field Trials

- NEPA
- Trust

Communication

- Who gets credit?
- Staying focused
- Trust



Contact

Rich Haut

Houston Advanced Research Center

rhaut@harc.edu

(281) 364-6093

www.efdsystems.org

www.efdvirtualseite.org

www.oilandgasbmps.org