Wyoming Enhanced Oil Recovery Institute

Vision for the Future

David Mohrbacher, P.E.
Director

1 Enhanced Oil Recovery Institute, University of Wyoming, Laramie, WY 82071.
- 12% of Wyoming’s 2009 oil production came from EOR
**Total Oil Production:** Down 3.1% to 51.33 million BO; 9,800 producers, 4,600 wells shut-in; reflects steep historic decline in mature fields and increasing condensate production from the Greater Green River Basin in southwestern Wyoming and increasing production from 5 CO2 projects.

**Enhanced Oil Recovery projects:** In 2009 produced just over 6,000,000 BO or 11.7% of Wyoming’s total oil production
Enhanced Oil Recovery Institute

The Enhanced Oil Recovery Institute (EORI) was created by an act of the Wyoming legislature in 2004.

The act created a commission that: “shall oversee and direct development of the programs (EORI programs)” including:

- Completion of research (research, development, and demonstration) for oil and gas recovery.
- Technology transfer.
- Development of economically viable solutions.

The act indicated that EORI would be located at the University of Wyoming.
Enhanced Oil Recovery Institute Triad

- Wyoming Producers
- University of Wyoming
- Wyoming Legislature & EOR Commission
Recovery of Wyoming’s Stranded Oil

• Technology Development

• Technology Demonstration

• Technology Transfer

• Economic Development
Technology Development

- Apply existing EOR technology to Wyoming reservoirs and create new knowledge when necessary.
  - Low salinity flooding
  - Description of natural fracturing
  - Multi-phase flow studies
  - Surface chemistry evaluation
Technology Demonstration

Facilitate the testing, evaluation, and documentation of EOR technologies in real world environments.

- Reservoir modeling
- Development recommendations
- Conformance improvement
- Single well displacement testing
Technology Transfer

Global View – Wyoming Focus

Benchmark innovative petroleum industry practices and transfer “know how” to Wyoming operators through workshops, conferences, and projects.
Maximize economic potential for application of EOR in Wyoming.
New Opportunities

- Conformance improvement
- Field demonstration of Low Salinity flooding
- Field demonstration of chemical flooding
- Potential application of CO2 to shale plays
- Increased integration with School of Energy Resources programs
  - Carbon management
  - Shale development
Contact EORI

David Mohrbacher
jmohrbac@uwyo.edu
307-766-2791

Lon Whitman
LWhitma3@uwyo.edu
307-760-0577