8th Annual Wyoming CO2 Conference

Tom Fitzsimmons, Chairman
Enhanced Oil Recovery Commission

Update on EORI
EORC

Formed in 2004 to oversee research and to promote and facilitate the transfer of EOR/IOR technologies to the oil and gas industry in Wyoming

• Located on campus of the University of Wyoming

• EORI operates on a $5.7 million biennial budget with oversight from Commission
Commission

• Governor Matt Mead, Rob Hurless ex-Officio
• Tom Fitzsimmons, Chairman
• Senator Eli Bebout, Legislative
• Tom Drean, State Geologist
• John MacPherson, UW Trustee
• Ron Baugh
• Jimmy Goolsby
• Aaron Otteman
Recent Developments

• Recent leadership vacancies
  – Mohrbacher (June)
  – Murrell (April)

• Technical staff openings

• SER will be making recommendation in late summer to outline skillsets required for new Director position
Faculty Projects

• Economic Analysis – Phillips/Cook
• Chemical Flooding W. Gibbs – Alvarado
• Asphaltene Precipitation in CO₂ Flood – Goual
• Statistical analysis of floods for improved performance - Aryana
Update on Future Activities

- Outreach
- Accessibility of data public data
- EOR/IOR for Unconventional Resources
Outreach – Ensuring Relevance

- Maintain relationship with TAB members
- Funding of faculty projects tied to actual field studies and Operator involvement
- Continue with forums and workshops to meet needs of Operators
What does Accessibility look like?

• Create a reliable platform for geologic, reservoir and fluid data to be shared in public domain
  – PVT data
  – Core data by reservoir
  – Reservoir modelling and field studies whenever created

• Tied closely with WOGCC website
Unconventional Enhanced Recovery

- Recovery Factors expected to be between 1 and 10% for US shales (Joshi SPE June 2014)
- On a marginal basis, EOR/IOR capital costs are usually lower than initial development costs ($15-30/BO)
Low BTU Gas Injection

• Powder River Basin has a vast resource of lean gas available
• Wells are being plugged
• Plenty of time is required
  – modelling
  – changes in taxation may be required
  – pilot tests
  – infrastructure