



Unconventional Gas Stimulation/Completion

- Big Picture Issues
 - Permeability/conductivity
 - Formation face damage
 - Proppant pack clean-up
 - Complex fracture growth
 - Proppant transport in low viscosity fluids
 - Geological/sedimentary setting
 - Horizontal/multilateral
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Ongoing research at CSM

- Shale gas stimulation
- Propellant fracturing
- FAST Consortium



