

Applications

- Waterflood Conformance
- CO₂ Flooding Conformance
- Production Well Casing Repairs
- Well Drilling Influx Control
- Building Basement Leaks
- Low Pressure Pipe Repair

Impact Technologies LLC
was formed in 2003 and is engaged in the design, patenting, prototyping and commercialization of over 20 new products and technologies, mainly focused in specialized drilling and sealing. Impact has worked with multiple universities, national labs and industry partners and has 27 patents & patents-pending in the U.S. and internationally.



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SPI Gels



What are SPI Gels?

DOE Field Tests

Oilfield Industry Call to Action

Description:

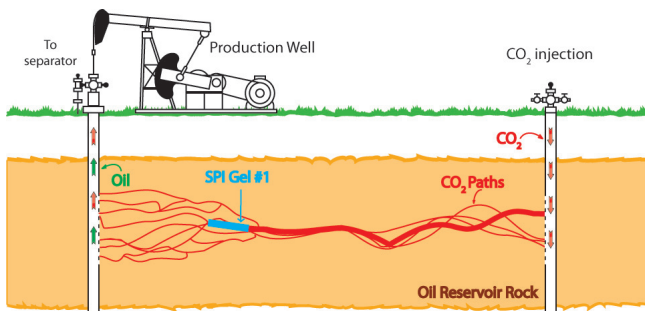
SPI Gels are multi-component, single fluid pumped, time delayed silicate gel systems. They are environmentally friendly and cost less than current systems, allowing for larger treatments and higher success rates.

Development Status:

Six years and \$900K of development have gone into SPI Gels. They have been tested in waterfloods, casing repairs, pipe repairs, basement leaks and bench tested for use in CO₂ floods.

Use in CO₂ Flood Conformance:

SPI Gels block off inefficient zones (bold red line), allowing CO₂ to follow new paths (thin red lines) to reach other reservoir areas where oil is trapped.



Grant Information:

- **Title** - Improved Mobility Control for Carbon Dioxide (CO₂) Enhanced Oil Recovery Using Silica Polymer Initiator (SPI) Gels
- **Timeline** - 3 years (2011-2013)
- **Funding** - \$1,500,000
- **Partners** - CTI, Industry
- **Purpose** - Field test SPI Gels in CO₂ Floods

Seeking Operators of CO₂ Floods to:

- Provide well site for treatments
- Provide well / field information
- Provide oil /water samples for lab testing
- Provide Geologist/Engineers for treatment design
- Provide field personnel for treatment
- Provide post-treatment well and field data
- Allowing sharing of non-identified well and treatment data for publication
- Cost Share only by in-kind time and effort

Impact will:

- Run laboratory optimizing tests on well samples
- Design a SPI field treatment plan for operator/DOE approval
- Perform treatment (chemicals and personnel) in field
- Monitor and report results

Impact needs YOUR help!

In order to continue to develop the technology and introduce it into the market as a commercial product, Impact needs industry help for:

- **Operators of CO₂ Floods to participate in DOE Field Tests**
- **Operators of waterfloods**
- **Air Drilling Contractors with water influx problems**
- **Resources to commercialize**

If you are interested or know someone who is, please contact Impact Technologies using the information on the back of this brochure.