

Operator: TPIC

Well: State Lease 378 #139

Well Location: Catfish Lake, Golden Meadow, LA.

Well Type: Production

Category: Water Shut Off

Job Type: Liquid Bridge Plug®

Depth of Shut Off: 11,090- 11,110 open perforations

Casing Size: 5 ½" 17ppf

OBJECTIVE: To effectively shut off water production at current lower perforation sand to block lower water bearing formation matrix from production zone enabling operator to produce upper gas bearing zone.

CHALLENGES:

- Limited wellbore spacing tolerance in which to establish proper radial penetration and inner wellbore plug.
- Operator needed to have a product that would not be negatively affected by treating production zones with **acidic stimulation products** post water shut off.

APPLICATION: Liquid Bridge Plug® applied with 2" by 30' gravity feed bailer ran via E-Line.

RESULTS: Five (5) treatments of Liquid Bridge Plug® (12.5ppg resin for a total of 13.75 gal or 10' plug after leak off to matrix) were applied. After 24 hrs, sufficient cure time of the resin, the reservoir was put back on line. **The results ending in a permanent plug, resulting in 100% reduction of reservoir water, with increased amount of gas production, and operations were done without the need for a rig.**

RESIN TECHNOLOGY

Customizable Resin Technology for Recompletion & Loss Circulation

This line of versatile, non-shrinking, exothermic reaction resins is applicable for well recompletion, loss circulation, wellbore stabilization, P&A and workover completion, and provides an impermeable seal through and around cement plugs.



LIQUID BRIDGE PLUG®

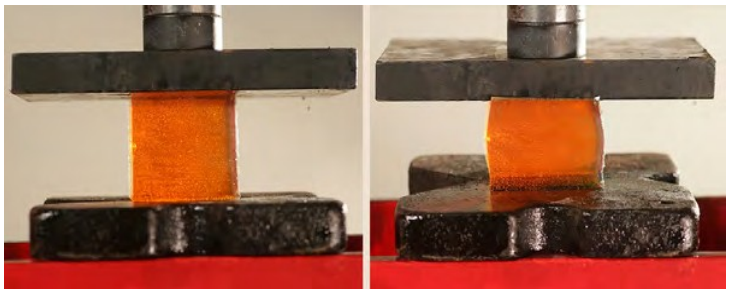
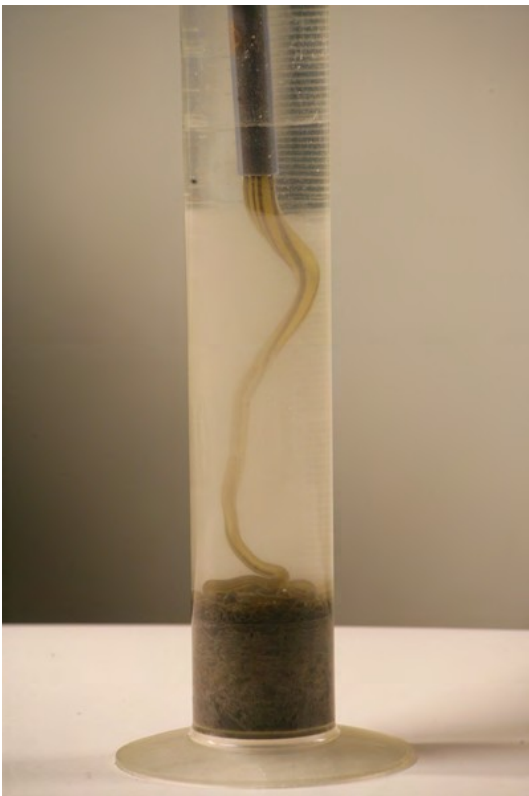
This non-shrinking, exothermic reaction resin provides an impermeable seal for micro leaks of gas through and around cement plugs and packers. It has successfully been used to shut off gas for abandonment, to seal leaking packers, for water shut-off, and to plug and abandon hurricane-damaged wells. Its viscosities can be altered for sealing control lines with small IDs.

BENEFITS

- Formulated for temperatures ranging from 55.4°F to 400°F
- Easily drilled
- Very high compressive strengths — greater than 4x that of advanced cement slurries
- Ultra-high shear bond strengths > 13.79 MPa
- Exothermic
- Not water or oil soluble

CONCENTRATIONS

Volumes of 5 gallons to in excess of 100/bbl



Liquid Bridge Plug® will reform and not fracture like other downhole sealants on the market.