



## ControlSEAL Resin Sealant Sustained Casing Pressure Remediation

### The Challenge

An operator was attempting to remediate SCP in a cemented casing by casing annulus. The pressure was diagnosed to be coming from the production interval and gas was migrating through the following path:

1. Cemented production liner annulus
2. Leaking liner top packer
3. Micro-channels within the cemented casing by casing annulus

Several unsuccessful cement squeeze attempts resulted in the operator trying to isolate the pressure above the leaking liner top packer within the casing by casing annulus. The extremely low injection rate into the cement micro-channels resulted in the operator needing a solids free sealant that would be able to isolate the pressure with a small volume treatment.

### The Solution

A suicide squeeze using ControlSEAL epoxy resin was performed by setting a squeeze packer between

two milled sections. First, water was circulated through the micro-channels at 1 bpm and 3,500 psi to confirm injection. Then, 10 bbl of low viscosity ControlSEAL was squeezed into the micro-channels at 0.5 bpm and 3,000 psi.

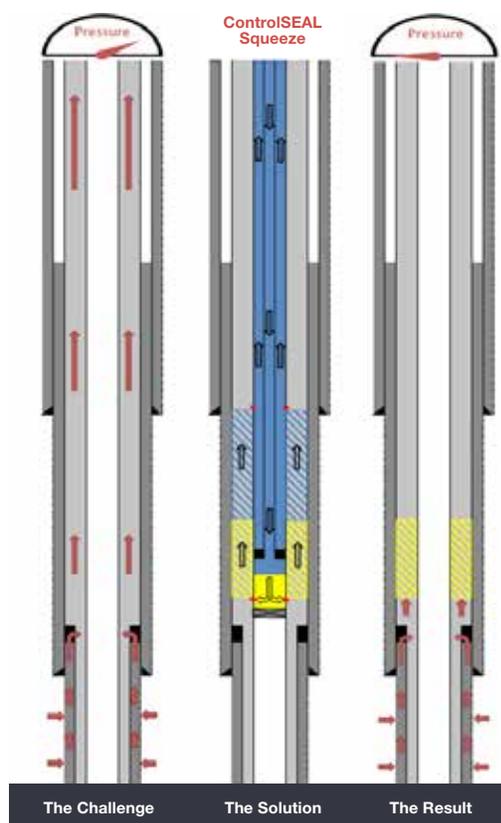
### The Result

After 48 hr, the SCP was bled down to zero and did not build up, showing that ControlSEAL was able to:

1. Flow through cement micro-channels
2. Consolidate a poor cement job
3. Restore pressure integrity

### About ControlSEAL

ControlSEAL is a bipartite system of an epoxy resin and chemical hardener specialized for use in well remediation operations. It has unique mechanical, chemical and rheological properties that contribute to a product that outperforms cement and enhances well integrity. The system is easily mixed and placed with conventional oilfield equipment and will flow into and seal areas inaccessible by conventional cement slurry.



The resin is cohesive and can free-fall through water or completion fluids to the target zone without diluting. Each resin design is formulated and optimized to meet well-specific parameters through the use of laboratory investigation and engineering analysis.

For additional information, contact Wild Well at [ControlSEAL@wildwell.com](mailto:ControlSEAL@wildwell.com)