

RiLOCK™ TufCem Resin

Plug & Abandoning an old acid injection well with resin-cement

Overview

A well in East Texas that was previously used to inject and store strong acids was being plugged and abandoned with government oversight. A Riteks RiLOCK™ TufCem plug was placed to successfully plug & abandon the well with a long-term barrier and superior mechanical properties over neat cement.

Solution

Riteks' RiLOCK™ TufCem Resin was placed as a 15.0 ppg plug 10' above the injection packer. RiLOCK™ TufCem Resin is a resin-cement mixture engineered to provide increased mechanical properties, and durability over neat cement.

Problem/Challenge

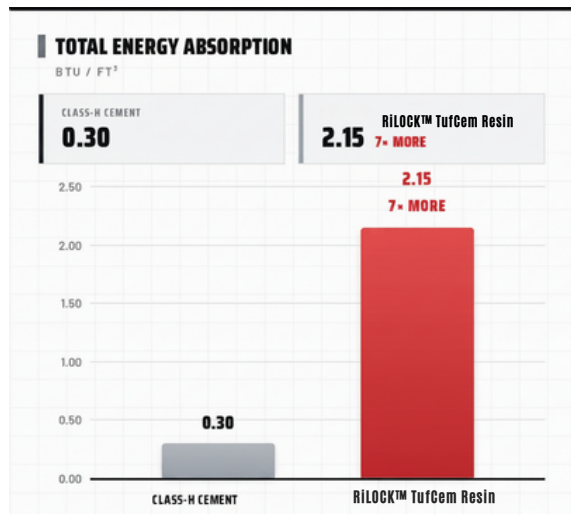
The well posed significant risk for environmental harm due to its original purpose and history as an acid injection and storage well. To plug and abandon the well, state government required specific properties of the barrier to protect and preserve the integrity of the well. TufCem was chosen because it met the necessary criteria and also provides additional properties essential to long-term barrier success at an economical cost.

Result

RiLOCK™ TufCem Resin was successfully mixed, pumped, placed, then tagged the next morning – resulting in the setting of a long-term barrier protecting the well integrity and environment.

METRIC	CLASS-H CEMENT	RiLOCK™ TufCem Resin	IMPROVEMENT
Modulus of Toughness	0.3	2.2	▲ +633%
Young's Modulus (YM)	1.14E+06 psi	8.34E+05 psi	▼ -27% MORE FLEXIBLE
Poisson's Ratio (PR)	0.17	0.20	▲ +18%

CONVENTIONAL CEMENT VS. RiLOCK™ TufCem Resin



Scan to Request a Sample

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