

## EcoClean-XB™

### Effective and safe stimulation where high viscosity frac fluid is required

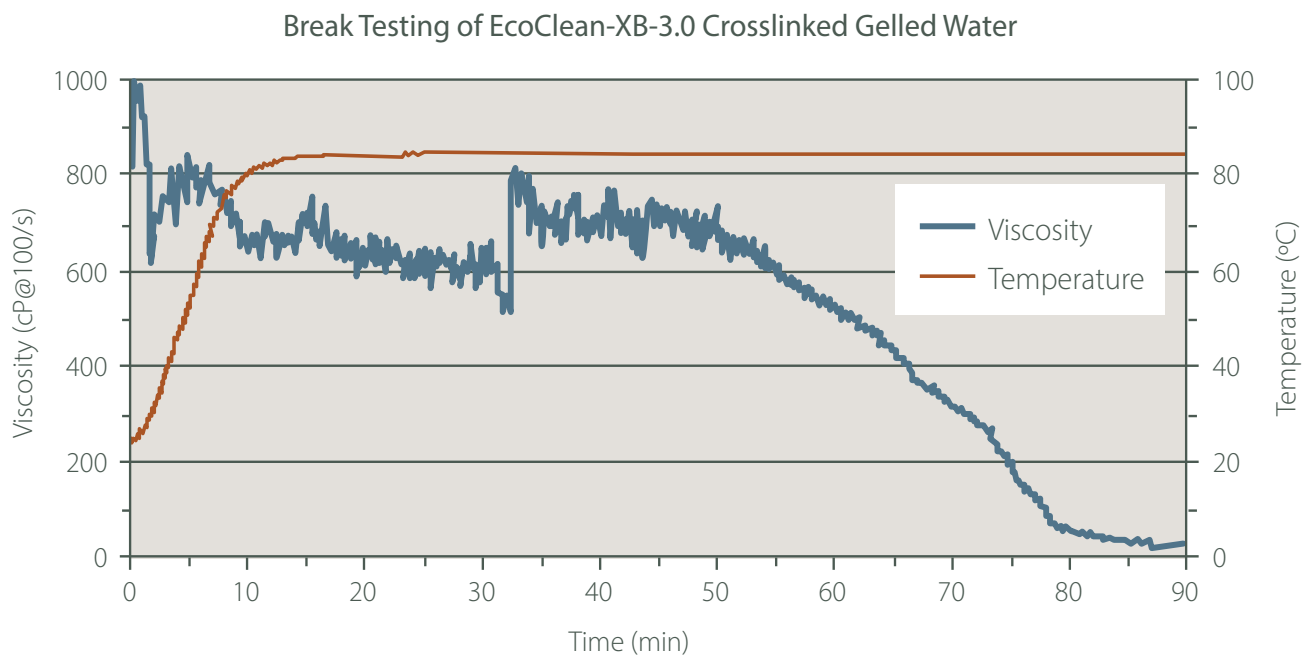
EcoClean-XB™ is the newest fluid in the expanding line of EcoClean products, which are designed to reduce the impact of operations on the environment and the reservoir, while also helping protect product handlers. EcoClean-XB is a crosslinked gelled water frac fluid designed to transport high proppant concentrations and prevent fluid leakoff. The fluid is bio-degradable and non-bioaccumulating, and all additives pass the recommended Microtox® test for measuring drinking water quality. In addition, the fluid performs like a conventional frac fluid, is environmentally friendly, and can be pumped with nitrogen to reduce water usage.

EcoClean-XB provides excellent shear stability and reduced friction pressures, and as a result is ideal for use in high-rate jobs. Because of its controllable delayed crosslink time (2-8 minutes) and manageable break times, it is also the perfect choice for medium to deep wells.



## EcoClean-XB advantages

- EcoClean-XB is bio-degradable and non-bioaccumulating.
- EcoClean-XB is environmentally friendly and all its additives pass the Microtox® test for drinking water quality.
- EcoClean-XB consists of five additives that, when combined in fresh water, create a viscous gel that can be used to carry high proppant concentrations into the formation ( $> 1,000 \text{ kg/m}^3$  [ $> 8 \text{ ppg}$ ]). Those additives are:
  - WG-111D – Water Gellant (guar bean gum)
  - GCS-1 or GCS-2 – Green Clay Stabilizer (chloride free)
  - GNE-1 – Green Non-Emulsifier, or GFE-1 – Green Flowback Enhancer (surfactant)
  - GXB-1 – Green Crosslinker (borate)
  - WBO-2 – Gel Breaker (oxidizer)



For more information on EcoClean-XB and other greener products, please call **Trican Well Service**.



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