EquiSeal™ Conformance Service

CUSTOM WATER AND GAS SHUTOFF SYSTEM FOR HORIZONTAL OR HIGHLY DEVIATED WELLBORES

OVERVIEW

Halliburton’s EquiSeal™ Conformance service is specifically designed to help control unwanted fluid production, water or gas, in horizontal or highly deviated wellbores. Depending on fluid density differences and wellbore deviation, conventional Conformance treatments may tend to slump/rise along horizontal or highly deviated sections, compromising the placement accuracy and overall success of the treatment. The stress-dependent (thixotropic) rheological properties of EquiSeal Conformance service provides rapid viscosity increase during placement, allowing the treatment to remain in place until in-situ crosslinking occurs at a predicted time, helping to provide a competent seal across the targeted area. Halliburton’s EquiSeal™ service is the only thixotropic Conformance technology specially tailored to horizontal applications in the oil and gas industry today, helping operators achieve the lowest cost per BOE through custom chemistry.

BENEFITS

» Allows precise placement of the gel system into the targeted area due to its stress-dependent rheological properties.
» Highly suitable for horizontal or highly deviated wells with different completion types such as openhole, slotted liners, OHGP’s and CHGP’s, among others.
» Wide temperature range of application, ranging from 140°F (60°C) to 250°F (121°C).
» Can be tailored for deep penetration into the formation or to bridge off at the formation face, as desired.
» Resistant to H₂S, CO₂, and acid environments.
» Predictable reaction time. EquiSeal™ provides a predictable and controllable crosslinking time (phase change from liquid to gel state) to obtain adequate placement. Treatment is insensitive to formation fluids, lithology, and/or heavy metals.
» Backed by Halliburton’s reservoir-focused Conformance control engineering and technology.
The Sealant Technology is the Key
EquiSeal™ Conformance sealant is based on a market proven polymer gel system combined with proprietary rheological modifiers. EquiSeal and EquiSeal NWB use an organically crosslinked polymer system that provides unprecedented sealant capabilities for controlling unwanted fluid production. Operators have found that the organically crosslinked system is simply one of the most cost-effective polymer sealant systems available in the market. Combined with the rheological modifiers, EquiSeal and EquiSeal NWB Conformance services are game changers in the treatment of horizontal or highly deviated wellbores.

EquiSeal™ vs. EquiSeal™ NWB Conformance Services
Another versatile aspect of this service is that it can be formulated to allow for penetration into the formation matrix or to bridge off at the formation face for limited leakoff. EquiSeal™ is a solids-free system that can easily penetrate the matrix of the rock to have deep penetration. Conversely, EquiSeal™ NWB (near-wellbore) incorporates leak-off control additives in its formulation, to help provide a controlled and shallow penetration at the formation face.

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com