

Losseal Reservoir Fracture

Lost circulation control treatment

APPLICATIONS

- Mitigate drilling fluid loss in naturally fractured reservoirs during drilling
- Carbonate, sandstones, and dolomite producing formations
- Fractured basement drilling
- Fractured depleted reservoirs

BENEFITS

- Prevents drilling fluid invasion into the reservoir
- Offers rapid response time for preparation and mixing
- Reduces nonproductive time while drilling
- Reduces the time it takes to reach target depth (TD)
- Prevents formation damage
- Eliminates the need for remedial treatments

FEATURES

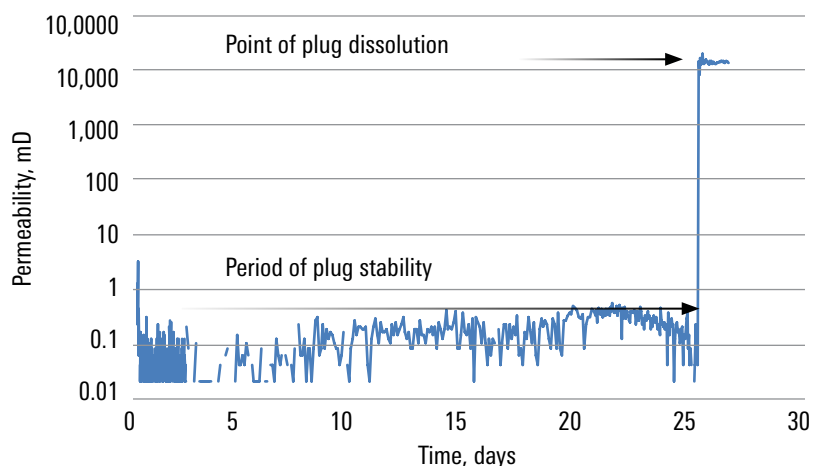
- Plugging material degrades with time to allow production from the zone
- Fiber durability options offer adjustable plugging periods according to operational need
- Treatment can be pumped through some bottomhole assemblies and drill bits

One of the Losseal* reinforced composite mat pills family, Losseal Reservoir Fracture* lost circulation control treatment is a composite blend of dissolvable fibers and solids providing a highly effective lost circulation solution for use during drilling.

The Losseal Reservoir Fracture treatment's material maintains its stability over a broad bottomhole temperature range. Proven to plug fractures of varying width, the Losseal Reservoir Fracture treatment's material is stable for sufficient time to allow the well completion, but eventually degrades with time. Once degraded, the material leaves the formation undamaged, allowing the natural fracture to produce without remedial treatment.

Parameters that can affect fiber performance include, but are not limited to, fluid viscosity, fiber concentration, fiber geometry, flow rate, and fracture width. The Losseal Reservoir Fracture treatment's fibers are delivered in a fluid that has been designed for easy preparation at surface, and can be configured to allow for compatibility with bottomhole assemblies (BHAs).

This innovative degradable solution has been successful during field trials in various drilling scenarios where severe to total losses were experienced. The Losseal Reservoir Fracture treatment's material was placed without issue through BHA and bit nozzles.



Fracture permeability data in time, demonstrating plug stability and subsequent dissolution.



The Losseal Reservoir Fracture treatment's material in varying stages of degradation. The fiber system is stable for a configurable period of time then breaks down to allow for production, leaving the formation undamaged.