Schlumberger

CemNET+

Advanced fiber technology combination to control losses

APPLICATIONS

- Drilling, casing, and cementing operations with losses due to fractured formation
- Performance optimized up to fracture apertures of 0.04 in (1 mm)
- Cementing operations with TOC requirements

BENEFITS

Reduces nonproductive time (NPT) by

- Mitigating the risk of cement and fluid losses
- Curing losses without setting cement plugs
- Eliminating the need to pull out of hole (POOH) by pumping through bit nozzles as small as 8/32 in (6.35 mm)
- Eliminating time-consuming, expensive remedial operations
- Helping regain circulation quickly
- Achieving required top of cement (TOC)

FEATURES

- Mixes with cement, spacer fluids, and water-base, oil-base, and synthetic-base muds
- Comprises an interlocking network of fibers and sealing material of various size
- Ranges from 5 to 15 lb/bbl (14 to 42 kg/m3) total concentration, depending on solid volume fraction (SVF)
- Disperses easily in fluids
- Eliminates special equipment and laboratory tests
- Allows single-bag approach for fast deployment

The CemNET+ engineered treatment for lost circulation features lab-tested fibrous material that can pass through 8/32-in (6.35-mm)bit nozzles to plug slots as small as 1/16 in (1.6 mm).*

Mitigate losses while reducing NPT

The CemNET+ treatment combines specially engineered fibers with solid bridging material of optimal sizing to increase the effective SVF of carrier fluids, like mud, spacer fluids, or cements.

The result is a compact, impermeable seal that plugs pores and fractures and mitigates the risk of lost circulation during drilling, running casing, and cementing operations. During drilling and pre-cementing, the CemNET+ treatment is applied through a pill of drilling fluid. During cementing operations, it is added to the spacer fluid ahead of the slurry. Special synergy is expected for those cementing operations where the advanced fiber technology to control losses is already added to the cement slurry, where with the CemNET+ treatment, the spacer can also be treated effectively for loss mitigation.

The CemNET+ treatment can help to regain circulation or prevent lost circulation, run casing without losses, and casing cementing to achieve the required top of cement (TOC)—substantially reducing NPT and costs.

The CemNET+ treatment's inert, fibrous material has been thoroughly field proven, can pass through 8/32-in (6.35-mm) bit nozzles, and can plug slots as small as 1⁄16 in—eliminating the need to POOH.

The system has been successfully used in more than a 1,000 jobs across North and South America.

*Mark of Schlumberger

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