Cementing

Halad®-23
Fluid-Loss Additive

Halad®-23 additive is a high-temperature fluid-loss control agent that functions effectively in freshwater and saltwater slurries. Halad®-23 additive is ideal for circulating long columns of cement slurry on primary casing jobs and for deep liner cementing. It helps maintain fluidity, eliminate premature dehydration, and prevent annular bridging in a tight annulus when cementing is performed from 80° to 360°F.

Features
A free-flowing powder used in 0.3 to 1.25% concentrations, Halad®-23 additive is compatible with most additives used in deep-well cementing. Halad®-23 additive also helps provide good frictional properties during displacement. Other features of Halad®-23 additive include the following:

- Halad®-23 additive can be a highly effective filtration-control agent in wells with static bottomhole temperatures greater than 400°F.
- It can control fluid loss of cement from 80° to 360°F BHCT.
- Halad®-23 additive can offer better control of slurry downhole by helping eliminate premature dehydration.
- It can function effectively in slurries containing up to 18% NaCl or 5% KCl.
- It can act as a dispersant to help provide better frictional properties during placement.
- It can act as a deaerator by reducing air entrainment, which helps provide more uniform slurry density.

Benefits
Halad®-23 additive can provide the following benefits associated with low fluid loss in squeeze-cementing and primary cementing jobs.

Squeeze Cementing. In squeeze-cementing jobs, Halad®-23 additive can offer the following advantages:

- It helps reduce premature dehydration in tubing and casing while perforations are squeezed.
- Long perforated intervals can often be successfully squeezed in a single stage.
- Satisfactory squeeze results can be obtained at low pressures without overdisplacement.
- The additive helps protect water-sensitive shale sections that may weaken and break down because of cement filtrate.
- Halad®-23 additive can reduce the amount of filtrate that can penetrate formations containing bentonite clays.

Primary Cementing. Halad®-23 additive helps provide the following benefits during primary cementing jobs:

- It can lessen the possibilities of water and/or emulsion blocks, and blocks resulting from bentonitic clay swelling caused by filtrate from cement.
- Halad®-23 additive helps protect water-sensitive shales, and can reduce premature bridging in annuli, which may be caused by dehydration.
- It can reduce slurry water losses, thus maintaining lower viscosities and circulating pressures.
- Halad®-23 additive helps control gas leakage while cement is setting.

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