

BLOCKADE

HIGH SOLIDS • HIGH FLUID LOSS LCM SQUEEZE

PRODUCT DESCRIPTION

BLOCKADE is a proprietary blend of sealants which form a stable, high solids, high fluid loss LCM slurry in all types of water-based and oil-based mud. Upon contact with a thief zone, a BLOCKADE slurry will rapidly de-water or de-oil, leaving behind a drillable plug in fractures, voids, and vugular spaces. The resulting seal is further enhanced when low squeeze pressure is applied. This plug can then be easily drilled through without the danger of unintentional sidetracking. The residual seal will serve as a foundation upon which a high quality mud filter cake can be deposited.

BLOCKADE can be used to formulate an LCM slurry weighing 9 – 19 ppg. No special mixing equipment is needed. Simply rinse the drilling mud from mixing pit and lines, add specified quantity of water, BLOCKADE, and barite, then displace slurry with rig pump. BLOCKADE has also been used successfully in whole mud (OBM and WBM) as an effective sealant for preventing or stopping losses while drilling, particularly in conjunction with F.I.T.[™]. LCM pills containing equal concentrations of F.I.T. and BLOCKADE have been applied successfully, avoiding the need for a BLOCKADE squeeze.

BLOCKADE slurry can be pumped through an MWD or mud motor. If the drill string does not include tools with restrictions smaller than ¼ inch diameter, FIRST STRIKE and/or COMBAT[™] (C) can be added to the BLOCKADE slurry as a source of larger bridging particles.

Note: Use of a cement pumping unit will minimize the likelihood of slurry contamination and assure more accurate squeeze pressures. Use of a squeeze tool will prevent undesirable slurry migration.



PRODUCT ADVANTAGES

- Can be pumped through the directional assemblies (MWD, motor, float, etc.) at extremely high concentrations (>120 ppb).
- Forms a cement-like matrix in the loss zone (compressive strength >3,600 psi).
- Effectively used to squeeze weak casing shoes & enhance formation integrity.
- Can be mixed and pumped using rig equipment.
- Proven effective under extreme conditions:
 - Mud weights exceeding 18.5 ppg.
 - Bottom hole temperatures approaching 400°F.
 - Squeeze pressures as high as 5,600 psi.
 - Depths greater than 22,000' TVD.



PHYSICAL PROPERTIES

- Appearance: Dark gray coarse powder
- Bulk Density: 34 – 38 lb/ft

PACKAGING

- BLOCKADE is provided in 25 pound bags, palletized and shrink-wrapped.
- There are 100 sacks per pallet (100sx/pal).

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