

INFORMATION

KLEEN-DRILL

NON-DAMAGING DRILLING/COMPLETION FLUID

DESCRIPTION

KLEEN-DRILL is a complete polymer additive package providing rheological and fluid loss control properties for either weighted or non-weighted drilling, workover or completion systems. KLEEN-DRILL may be mixed in fresh water, sodium chloride brines up to saturation, calcium chloride brines up to 36% calcium chloride (11.4 ppg), potassium chloride, soda ash and DAP systems. KLEEN-DRILL contains no clays, guar gum, or other potentially damaging inert materials. Extensive field and laboratory testing have proven this mixture to be essentially non-damaging to producing formations. KLEEN-DRILL filter cakes will not hinder clean-up procedures on a producing zone following a workover, completion or drilling operation.

APPLICATION

The concentration of KLEEN-DRILL will vary depending on the viscosity and fluid loss desired. Concentrations of 6 to 8 ppb usually give desired results.

One of the primary advantages of KLEEN-DRILL is that the system may be converted from solution weight to a calcium carbonate weighted system and still retain its non-damaging characteristics. A KLEEN-DRILL system exhibits superior suspending characteristics to clay-base muds. KLEEN-DRILL is a complete drilling or workover system and should not be added to a clay-base mud.

KLEEN-DRILL systems should be maintained as a no- or low- solids system. Solids build-up results in loss of fluid loss control and filter cake thickness increases rapidly.

MIXING PROCEDURES

Additions of KLEEN-DRILL should be made through a hopper at a rate of approximately 5 minutes per sack. One or two circulations through the hole should result in full yield of the polymers and maximum viscosity for the system.

PACKAGING

KLEEN-DRILL is packaged in 50 lb sacks.

KLEEN-BRIDGE is a Messina trademark