

عنوان مقاله:

Investigating the effect of different salts on rheological properties of oil well cements

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خلاصه مقاله:

Hydrocarbons production quantity, strongly affected by quality of cementing operation which can be considered as the one of the most important operations performed in the petroleum industry operations. Using sweet water as a dispersing agent is rarely in drilling operations for preparation mud drilling and cement slurries. Consequently, accurate understanding the effect of salts on the rheological properties of cement slurries which is a key factor to have a sufficient job, is crucial. So in this study the effect of monovalent and divalent salts on the rheological characteristics of two types of oil well cements slurries (class G cement and class G cement modified with a water repellent nano additive) was investigated through shear rate sweep test, thixotropic test, fixed shear rate test and modeling with two common models in this field. Results showed that both salts affect on the rheological properties of oil well cements but .(divalent salt (CaCl2) has more vigorous effect than monovalent salt (NaCl

کلمات کلیدی:

Oil well cement, Modeling, Viscosity, Shear stress, Thixotropic

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