

عنوان مقاله:

Experimental investigation the effect of diesel on silicate-kcl based drilling fluid

محل انتشار:

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خلاصه مقاله:

Differential sticking is one of the most common and serious drilling problems that always increase drilling costs. The cost of stuck pipe to the industry is in excess of \$052 million each year. It can range in severity from minor inconvenience to major complications, which can have significantly negative results, such as loss of the drillstring or complete loss of the well. If the drill string becomes stuck, every effort should be made to free it as quickly as possible because the probability of freeing stuck pipe diminishes rapidly with time. Also, early identification of the cause of the sticking problem is crucial, since each cause must be remedied with different measures. An improper reaction to a sticking problem could easily make it worse. There are several approaches of differential pipe sticking like use of special Drilling tools such as square spiral drill collars, use of oil muds, frequent movement of drill pipe, special treatment on water based drilling fluids etc. Out of these approaches, the most economical approach is special treatment on drilling fluids (selection and use of suitable fluid loss controlling agents and lubricant during the preparation of water based drilling fluids). Earlier, petroleum oils that are either refined or crude have been used for this purpose. But Environmental regulations limit its use. The performance of diesel on the silicate-based drilling mud in rheological and lubrication properties was investigated. It was found that a favorable effect on the lubricity properties. With the idea of favorable effect, filtrate and performance efficiency of silicate-kcl based mud system, this research study work look in to the effect of diesel on lubricate property of silicate-kcl based mud system.

کلمات کلیدی:

silicate-kcl based Drilling Fluid, Differential sticking, rheological properties, lubricate property

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