

## عنوان مقاله:

(Modification of rheological and API fluid loss of bentonine-based drilling fluids using polyanionic Cellulose (PAC

## محل انتشار:

سومین کنگره ملی مهندسی نفت (سال: 1390)

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## خلاصه مقاله:

In drilling operations the prosperity of a drilling process mainly depends on rheological properties and filtration behavior of drilling fluids. This study aims to examine the effect of polyanionic cellulose (PAC) on therheological and filtration properties of bentonite-based muds. Four distinctive mud formulations were prepared and their rheological characteristics determined using a Fann viscometer. Rheological data were well described by the Herschel-Bulkley model while statistic analysis proved the goodness of fit process. Moreover, PAC addition provided very good filtration control. In conclusion, the results confirmed that PAC could highly improve the bentonite-based mud rheological properties and control API fluid loss

کلمات کلیدی:

Drilling Fluid; Bentonite; PAC; Rheological Properties; Fluid Loss

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