

عنوان مقاله:

Aphron Drilling Fluids, a New Approach

محل انتشار:

دومین کنگره مهندسی نفت ایران (سال: 1386)

تعداد صفحات اصل مقاله: 9

نویسندگان:

Mohammad yousefelahi - *Petroleum University of Technology Department of Petroleum Engineering*

Mojtaba Pordel

Mahdi Namvar

Amir Abedpour

خلاصه مقاله:

New technologies are assumed to be very good remedies for the problems which arises when drilling wells or even in production and refining processes, but the reality is that a new technology can be even a danger to a reservoir if used without enough study and programming. In this paper as a review on the works done, we look for a novel approach in drilling fluids. This paper contains a general introduction of Aphron Drilling Fluids, the mechanism of its working, the different systems of Aphron fluids, a brief model of determining Half-life of the bubbles in a pressurized system and a rheological discussion between the two major systems (Standard and Alternative systems), these calculations are done with the data given by two of petroleum masters; Growcock and Simon, showing three rheological graphs with its explanations. The main aim of this paper is to give a general overview on the Aphrons, in order to prepare the industry men for getting along with new technologies and discussing the probabilities of its use in our fields, at least for testing it.

کلمات کلیدی:

Aphrons, Low Shear Rate Viscosity (LSRV), Stability, Formation Damage, Rheology

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/147005>

