

## عنوان مقاله:

Review and comparison on Rock Poroelastic Measurement Systems

## محل انتشار:

سومین کنگره ملی مهندسی نفت (سال: 1390)

تعداد صفحات اصل مقاله: 14

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## خلاصه مقاله:

Theory of poroelasticity is used to characterize mechanical behavior of porous media. Poroelastic coefficients are more than elastic ones because of complexity of porous media. These coefficients are very important in mechanical behavior analysis of Porous rocks and in oil industry issues such as subsidence, compaction and reservoir calculations. So measuring them require a system that is able to control and measure the variables of poroelasticity. There are many systems which devised by researcher to measure poroelastic coefficients. These systems are developed by the time to become more automated and accurate. The subject of this paper is review and comparison of rock poroelastic All of ۲۰۰۶ until ۲۰۱۳ systems are explained and compared in details from measurement systems. The number of properties such as applied stress condition, method of measurement (manual or automaticity), maximum of applied stress, pore fluid, displacement measuring mechanism, temperature system, accuracy, sample size and the numbers of measured Poroelastic coefficients are discussed and the results are presented in a big table.

## کلمات کلیدی:

Porous Rock-Theory of Poroelasticity-Experimental System-Poroelastic coefficients

## لینک ثابت مقاله در پایگاه سیویلیکا:

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