

## عنوان مقاله:

Petrophysical study for determination of geomechanical properties in feasibility study of hydraulic fracturing

## محل انتشار:

دومین کنفرانس ملی ژئومکانیک نفت (سال: 1395)

تعداد صفحات اصل مقاله: 2

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## خلاصه مقاله:

Considering the complexity of the hydraulic fracturing (HF) operation, this method is still widely used in stimulation of oil and gas wells. Design of HF requires enough accuracy in selection of appropriate operational parameters for the candidate reservoir. The success of HF highly determines the proper rate of production in oil and gas wells. Iran holds a considerable fraction of world's hydrocarbon reservoirs. . In this paper, the data from core and well tests and Petrophysical and imaging graphs were used to determine the anisotropy of the reservoir. Also FMI1 graphs and Dipole shear waves may also be used to determine stress regime and fracture spacing, bedding, breakout, induced fracture, extent of fractured network, etc. Based on the results obtained from these methods for a candidate well, the feasibility of hydraulic fracturing was investigated. Due to relatively high permeability and porosity of the reservoir it was determined that the hydraulic fracturing is not necessary in this stage as the well can naturally produce oil economically.

## کلمات کلیدی:

DSI, Hydraulic fracture, Geomechanical properties, Petrophysic, Applied geophysics, Feasibility study

## لینک ثابت مقاله در پایگاه سیویلیکا:

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