Enyan Mqalae:
Correlation of Pore Volume Compressibility with Porosity in One of the Iranian Southern Carbonate Reservoirs

Mqll Atnshe:
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Kxlah Msqalae:
Pore volume compressibility is one of the most important parameters that must be considered in reservoir calculations. Due to the timeconsuming and expensive procedure of laboratory measurements, an accurate estimation of pore volume compressibility is necessary for precise simulation of the reservoir behavior. In the present study, porevolume compressibility data of one of the Iranian southern carbonate reservoirs has been used. A total of fifteen samples from three wells were selected for laboratory measurements. Petrographical analysis was conducted for determination of rock type and pore structure of the samples, then the effects of pressure and porosity on pore compressibility was investigated. The result of this study has shown that pore volume compressibility of the selected samples, which almost were pure limestone, has good correlations with porosity and pressure. Then a new formula for pore volume compressibility versus porosity has presented and has compared with published correlations.

Qllmat Klld:
Pore Volume Compressibility - Porosity - Correlation -Effective Pressure - Carbonate reservoir

Lmkh Tabay Nbt Mqalae Drr Paghah Sipwlik:
https://www.civilica.com/Paper-IPEC03-IPEC03_159.html