عنوان مقاله:

An Investigation of Factors Affecting CO۲ Storage in DeepAquifers Using Compositional Simulation

محل انتشار:

دومین کنگره بین المللی دانشجویان مهندسی شیمی و صنعت نفت (سال: 1402)

تعداد صفحات اصل مقاله: 16

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خلاصه مقاله:

Carbon Capture and Storage projects or CCS, require high expenditures while its direct financial benefits are near to non. However, CCS has shown that it is among the most reliable and important methods ofmitigating CO۲ emissions. Hence, it is crucial to maximize the amount of stored gas in such projects. Deep aquifers are one of the most widely used geological structures for storing carbon dioxide. For this reason, this paper investigates several factors which are key for storing carbon dioxide. These factors are: impure injection, depth of injection, well type (i.e. horizontal or vertical wells) , the effect of reservoir heterogeneity and injection strategy

کلمات کلیدی:

.CCS, GHG, Compositional Simulation, Aquifer, reservoir, Eclipse, Storage, CO۲, Carbon Dioxide