

عنوان مقاله:

(Study of CO2 Injection for EOR (Enhanced Oil Recovery

محل انتشار:

دومین کنگره مهندسی نفت ایران (سال: 1386)

تعداد صفحات اصل مقاله: 14

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خلاصه مقاله:

CO2 capture and storage has the potential for significantly reducing the amount of CO2 released into the atmosphere. CO2 can be injected into mature oil reservoirs for EOR (Enhanced Oil Recovery) projects, to help recover bypassed oil. The processes are complex and simulation modeling is essential, to help understand and plan largescale CO2 injection projects. This is a challenging subject, of increasing importance to oil companies and environmentalists throughout the world. For this paper, we will build physically realistic numerical models and investigate the mechanisms which influence oil recovery and CO2 storage capability. The study will include sensitivity to parameters such as reservoir permeability, temperature and fluid. In addition to pure CO2 injection, the paper will consider options for including CO2 in a solvent mixture with other gases such as methane, and WAG injection schemes (Water (Alternating Gas

کلمات کلیدی:

Recovery, Storage, Temperature, Permeability, Impurity, Contamination, Heterogeneity, Solubility

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