

## عنوان مقاله:

Screening and Technical Simulation of EOR Scenarios in One of Iranian Oil Reservoirs

## محل انتشار:

ششمین کنگره ملی تحقیقات راهبردی در شیمی و مهندسی شیمی با تاکید بر فناوری های بومی ایران (سال: 1398)

تعداد صفحات اصل مقاله: 11

## نویسندگان:

.Pooria Pirzadeh - *Department of Energy Economics and Management, Petroleum University of Technology*

.Nader Dashti - *Assistant Professor of Economics, Petroleum University of Technology, Tehran, Iran*

Abbas Shahrabadi - *Associate Professor of Chemical Engineering, Research Institute of Petroleum Industry, Tehran, Iran*

.Saeed Abbasi - *Instructor of Chemical Engineering, Research Institute of Petroleum Industry, Tehran, Iran*

## خلاصه مقاله:

Despite the growing need for energy and the anticipation of growth in oil and gas consumption, it is predicted that new discoveries of hydrocarbon reservoirs will decline significantly. [1] So producing oil and gas reservoirs should have high recovery efficiency. Enhanced Oil Recovery (EOR) methods are applicable for this purpose. Therefore, finding the best EOR method for Ilam reservoir in Ahwaz oil field is considering to be the general objective of this research. The first stage of the procedure is screening EOR methods that performed by selectEOR software. This software suggests proper methods based on reservoir characteristics. After screening, suggested methods are evaluated to find the best one and to optimum the specification of the selected method. Eclipse software is used for technical simulation of reservoir behavior. Three EOR methods were selected in screening stage: water injection, immiscible gas injection and miscible gas injection. Different scenarios of these methods were identified and simulated by Eclipse. Based on technical evaluation of the scenarios, immiscible gas injection in peripheral pattern with 11 injection wells has the highest recovery factor.

## کلمات کلیدی:

.EOR, IOR, Screening, Technical Simulation, Technical Evaluation

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/990079>

