

**عنوان مقاله:**

ENHANCED OIL RECOVERY USING ASP FLOODING

**محل انتشار:**

اولین همایش ملی فناوری های نوین در شیمی و مهندسی شیمی (سال: 1392)

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**خلاصه مقاله:**

As a relatively new technology of tertiary oil recovery, alkaline/surfactant/polymer (ASP) flooding has been studied extensively in the last two decades. ASP flooding enhances oil recovery through two major mechanisms: increasing the viscosity of displacing solution to improve the sweep efficiency by using polymer and reducing oil-water interfacial tension (IFT) to a very low value (10-3 mN/m) to improve the pore level displacement efficiency through the synergetic effect of surfactant and alkaline. Field tests and laboratory studies have shown that ASP flooding is more efficient than any single component flooding, such as alkaline, surfactant, or polymer flooding. At present, it is a promising tertiary recovery method and is getting increasingly more attention.

**کلمات کلیدی:**

KEYWORDS: CHEMICAL-ENHANCED , ASP FLOOD, SURFACTANT, RECOVERY, IFT

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