

عنوان مقاله:

A Literature Review on Utilization of Smart Well Technology

محل انتشار:

ششمین کنگره بین المللی مهندسی شیمی (سال: 1388)

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نویسندگان:

Hamed Heydargholizadeh - Ahwaz Faculty of Petroleum, Petroleum University of Technology

Hojatollah Farhadi - Ahwaz Faculty of Petroleum, Petroleum University of Technology

خلاصه مقاله:

Smart wells are growing rapidly in the oil and gas industry. Today, the development and deployment of smart technologies are important drives for improving well productivity and a remedy for almost all of production problems including early water or gas breakthrough and sand production. It enables operators to monitor, remotely choke or shut selected zones with poor performance without intervention. During early stages of development, electrical control systems and electronic sensors were applied. However, the service companies abandoned these earlier systems due to their poor reliability. Recently, innovation in fiber optic sensors and hydraulic control systems has significantly improved the reliability and the market adoption of this new technology. This paper describes the concept of smart technologies such as smart wells, fields, reservoirs and intelligent completions. Because of noticeable similarities in reservoirs of Saudi Arabia and Iran, we investigated the utilization of smart wells in Saudi Arabia as a practical background for integrating this technology in Iran.

کلمات کلیدی:

smart wells, smart Fields, smart reservoirs, intelligent completions

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