عنوان مقاله:

(Utilizing Intelligent Completion for Smart Gas Lifting . (Literature Review: Case Studies

محل انتشار:

ششمین کنگره بین المللی مهندسی شیمی (سال: 1388)

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خلاصه مقاله:

During the past 10 years, decline rates have doubled. At the same time, reservoirs are becoming more complex. They are smaller, tighter and more remote. As a result, reservoir recovery rates are less than 35%. The goal of many operators is to advance recovery rates to 60%. Wells equipped with permanent downhole measurement equipment or control valves, and especially those with both, are nowadays known as smart well or intelligent completion. Since the first intelligent completion was installed in August 1997 at Saga's Snorre Tension Leg Platform in the North Sea, over 300 such systems have been installed globally, from mature land assets to deep water off the coast of Brazil. However, like other new technologies, the adoption of smart wells has not been easy. These systems have been installed in wells for monitoring pressure, temperature, flow rate, phase fraction and seismic. The most important benefit of a smart well is improved reservoir management. Intelligent completions enable multiple reservoirs to be accessed with a single well while avoiding the common problem of cross-flow caused by different reservoir pressures. In addition, intelligent completions of injection wells enable greater control of gas flooding and improve the recovery of hydrocarbons from related production wells.

کلمات کلیدی:

Smart Well; Intelligent Completion; Interval Control Valve, Gas lift

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