Gas Lift as an Artificial Lift for Production from an Oil Field

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Abstract

Sometimes oil reservoirs may have not enough energy to push the reservoir fluid from the reservoir to the surface. It may be possible to maintain or even increase the production rate by using appropriate artificial lifting. Gas lifting is one of the most effective and cheapest method of artificial lift techniques that is used to reduce the oil density by mixing the oil with the gas which is injected at the lower part of the production string. Gas lift is the method of artificial lift that uses an external source of high-pressure gas for supplementing formation gas to lift the well fluids. Continuous-inflow gas lift is the only method of artificial lift that fully utilizes the energy in the formation gas production. During the lift process, gas is injected into the tubing. Gas injection will lighten the fluid column along the tubing, so it will increase oil production. In this paper, gas lift and its effects on oil production from an oil well has been discussed.