Consulting Services Identify Alternative Artificial-Lift Method That Doubles Previous Production in Mature Well

Objectives

- Design and run a pilot test to identify an alternative artificial-lift method for increasing production in a mature field in eastern Mexico. Most of the wells in the field used reciprocating-rod lift systems.

Our Approach

- The Weatherford team gathered and evaluated critical formation and production data on current asset performance. The evaluation parameters included reservoir production potential, well completion integrity, and surface conditions, among others.
- The consultants selected a well with an average production rate of 30 BOPD (4.8 m³/d oil) for the pilot test.
- The team performed a nodal analysis and then recommended the Rotaflex® long-stroke pumping unit as the best artificial-lift system for this field because of the flexibility and control it provides to increase production.
- Weatherford installed the Rotaflex unit, which was programmed to 4 strokes/min.
- The team monitored well performance for 3 months and concluded that the Rotaflex unit doubled the production, from 30 to 60 BOPD (4.8 to 9.5 m³/d oil).

Value to Client

- Weatherford consulting services identified the optimal artificial-lift solution for the client's mature field.
- The pilot program proved the capability of the Rotaflex pumping unit to significantly increase production in this mature field.