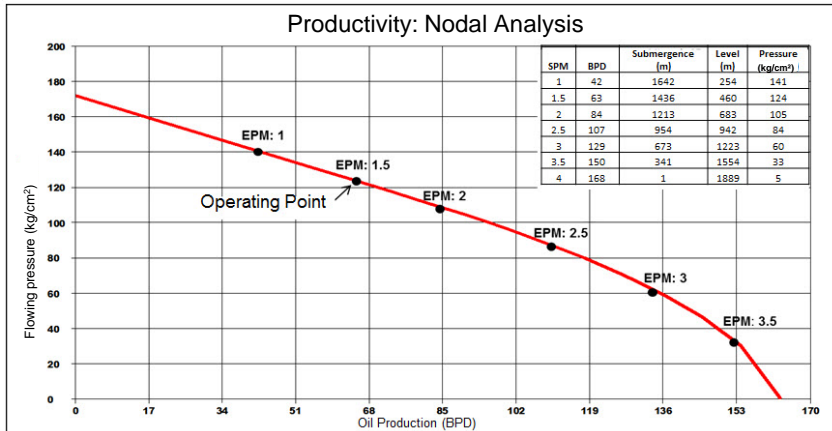


Consulting Services Identify Alternative Artificial-Lift Method That Doubles Previous Production in Mature Well



The graph shows the ability of the well to produce oil depending on the dynamic flowing pressures.

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.

LOCATION

Poza Rica, Mexico

WELL TYPE

Onshore, vertical, oil producer

FORMATION

Tamabra

HOLE SIZE AND ANGLE

8-3/8 in., vertical

CASING SIZE AND TYPE

6 5/8-in. N-80

DEPTH

6,575 ft (2,004 m)

PRODUCTS/SERVICES

- Production Optimization Consulting
- Petroleum Consulting
- Rotaflex long-stroke pumping unit

