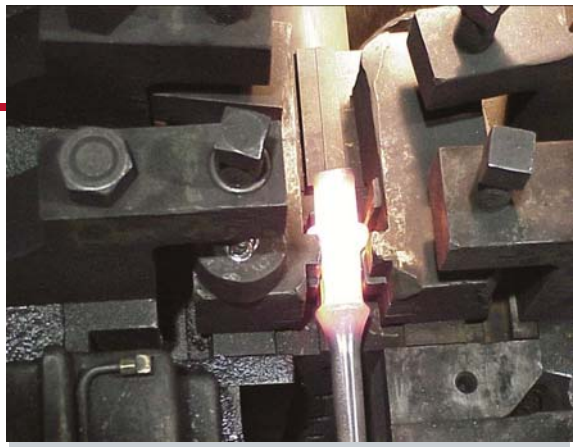
Weatherford®

REAL RESULTS

S-88 Quenched and Tempered Sucker Rods Eliminate Interventions, Save $160,000, and Help Increase Production



Objectives

- Replace 4138M normalized and tempered sucker rods with more rugged rods. In the prior 6 months, four sucker rod strings had failed because of high loads and metal-to-metal friction.
- Minimize interventions associated with sucker-rod failure.

Results

- Weatherford deployed a string of high-strength, quenched, and tempered S-88 sucker rods via Rotaflex® reciprocating-rod-lift system.
- In the 6-month period prior to installing the S-88 sucker rods, the client had experienced four failures related to the rod string. As of November 2014, the S-88 sucker-rod string had run for 400 days and approximately 1.75 million cycles without failure.
- The S-88 sucker rods did not fail at any point in the 14-month period following the installation, and zero interventions were needed.

Value to Client

- The extended run life of the sucker-rod string saved the operator an estimated US $160,000 in pulling costs.
- Each of the interventions resulting from the four previous sucker-rod failures resulted in a production loss of approximately 364 bbl (58 m^3). By eliminating the need for sucker-rod intervention in the 14 months following installation, the S-88 sucker rods helped increase total production over the previous year.
- The S-88 sucker rods were 5 percent lighter than the previous rods, which reduced the power needed to run the operation from 681 kWh/day to 672 kWh/day.

Weatherford S-88 sucker rods are made from 3130M chrome-nickel alloy steel and then quenched and tempered for enhanced toughness and fatigue resistance.

Location
Mendoza, Argentina

Well Type
Onshore

Stroke Length
24 ft (7.3 m)

Strokes per Minute
2.8

Products/Services
- S-88 sucker rods
- Rotaflex 900 reciprocating-rod-lift system

Weatherford

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