



Weatherford®

REAL RESULTS

Unique Design of COROD® Continuous Rod Enables Extended Reach and Increased Production in Major Oil Field

Objectives

- Optimize the artificial-lift design within a complicated application whereby steam-injected wells have a combination of long wellbore reaches, high bottomhole angles, and high produced-fluid viscosities.
- Reach the reservoir target, extend rod-pump efficiency, reduce failure frequencies, and increase overall production.

Results

- Weatherford replaced the conventional sucker rods with *COROD* continuous-rod strings in 100 percent of the wells within the field.
- *COROD* continuous rod successfully extended the pumping envelope to a 2,297-ft (700-m) reach at a reservoir target of 1,492 ft (455 m) true vertical depth (TVD) and an 80° bottomhole angle. Landing the pump at this depth could not have been possible with conventional sucker rods.

Value to Client

- By optimizing design to enhance overall production and well efficiency, Weatherford provided the following associated benefits to the client: increased production resulting from a deeper pump-landing depth, extended rod-pump efficiency due to a 60-percent decrease in flow losses, a 75-percent decrease in rod/tubing failure frequencies, and an overall reduction in well-servicing and pump-replacement costs.
- Through the combined product design and service efficiency within this particular field, *COROD* continuous rod and well services have been the preferred rod string for the last 30 years, resulting in a 100-percent *COROD* field (5,000+ wells).



Weatherford's *COROD* continuous rod is one of the leading well-optimization solutions for reciprocating rod lift (RRL) and progressing cavity pumping (PCP). A superior alternative to conventional sucker rods, *COROD* continuous rod offers several distinct advantages, including revolutionary design features, state-of-the-art manufacturing processes, and innovative global service options.

Location

Alberta, Canada

Well Type

Onshore, vertical well

Average Well Depth

2,297 ft (700 m)

Deviation

Vertical to 8 to 10°/100 ft (8 to 10°/30 m)
dogleg severity

Products/Services

- *COROD* continuous rod
- *COROD* well-servicing equipment

Weatherford
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