Semi-Elliptical COROD® Continuous Rod

Saves More than $4 Million in Failures and Workover Costs

A Permian Basin operator replaced conventional guided sucker rods with Weatherford semi-elliptical COROD continuous rod for an 87% reduction in tubing leaks and 81% lower rod-string failure rate.

Objectives

- Reduce excessive downtime and workover costs caused by more than 200-lb (91-kg) sideloads and more than 2° doglegs in more than 30 reciprocating rod-lifted wells operating with conventional guided sucker rods. The operator had experienced more than 150 tubing leaks and rod-string failures over a two-year period.

Our Approach

- Following a thorough pre-job analysis, Weatherford production specialists suggested replacing the round continuous rod with semi-elliptical COROD. This exclusive continuous-rod solution reduces sideloading and production-tubing wear by dispersing contact loads throughout the rod string.
- The Weatherford team installed the semi-elliptical COROD continuous rod in more than 30 wells.
- Over the next two years, COROD continuous rod reduced tubing leaks by 87% and rod-string failures by 81% when compared to the previously installed conventional guided sucker rods.

Value to Customer

- Weatherford semi-elliptical COROD continuous rod significantly reduced downtime and workover costs in more than 30 wells previously outfitted with conventional guided sucker rods. This reduction saved the operator more than $4 million over a two-year period.

LOCATION
West Texas

WELL TYPE
Reciprocating rod lift, onshore, oil, horizontal

FORMATION
Permian Basin, Wolfcamp Shale

HOLE SIZE
5-1/2 in.

CASING SIZE
5-1/2 in.

TUBING SIZE
2-7/8 in.

DEPTH
9,000 ft (2,743 m)

PRODUCTS/SERVICES
Semi-elliptical COROD continuous rod

Weatherford®