



# Weatherford®

## REAL RESULTS

### Breech-Lock Hanger System Enables Operator to Enhance Safety and Reduce Tubing Wear during Artificial Lift System Operations

#### Objectives

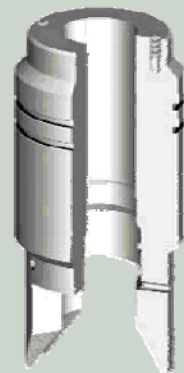
- Maintain well control while setting packers and anchors under tension, using conventional couplings and wraparound hangers.

#### Results

- Weatherford's Breech-Lock hanger system was run through the blowout preventer (BOP).
- The Breech-Lock system enabled the operator to hold tension in the tubing during downhole thermal cycles while preventing layover or sag.
- Rod wear from the pump jack, reciprocating rod lift, or progressing cavity pump system was reduced.

#### Value to Client

- Reduced rod wear saved maintenance costs while increasing rod and well life.
- Use of Weatherford's Breech-Lock hanger system enhanced safety by eliminating the need to nipple up or nipple down (NU/ND) the BOP and by removing personnel from underneath the suspended BOP.
- Well control was maintained.
- The operator saved an estimated two hours per installation.



Weatherford's Breech-Lock hanger system provides a less expensive, faster, and safer way to run tubing and suspend-in-tension through the BOP. The system eliminates the time and expense of an additional NU/ND BOP operation during completion operations while reducing tubing-string wear during artificial-lift operations.

**Client**  
Marathon Oil

**Field**  
Bakken

**Well Depth**

- 20,000 ft (6,096 m) measured depth
- 10,500 ft (3,200 m) total vertical depth

**Products/Services**  
Breech-Lock hanger system