



Weatherford®

REAL RESULTS

Quick Rapid-Lock™ Design Customization Reduces BOP Handling Time, Enhances Safety

Objectives

- Maximize operational efficiency and minimize non-productive time between rig moves. The operator had specifically selected the *Rapid-Lock* connector for its ability to accelerate nipple-up and nipple-down of the blowout preventers (BOPs) along with testing; but the configuration of the rig necessitated removing the *Rapid-Lock* connector from the BOP stack and reinstalling it from well to well. Unable to mount the BOP onto the handler, crews were limited to working on the rig's BOP skid.

Results

- Working with the operator and the drilling contractor, Weatherford quickly designed and manufactured a *Rapid-Lock* connector and mounting plate (affixed to the BOP handler) to a specific height. The custom design maximized the functionality of the *Rapid-Lock* connector for use with this BOP handler transport system.

Value to Client

- The customized *Rapid-Lock* connector allowed the operator to test offline when necessary, readily handle BOPs while third-party companies were onsite, and reduce BOP handling time by 2 to 3 hr per well.
- The new design was safer in this situation, minimizing exposure to hammer wrenches and eliminating the need to break down the BOP system. In addition, the new design allowed the BOP stack to be transitioned from the vertical to horizontal position for transport safely and efficiently.



BOP stack and *Rapid-Lock* connector (red) mounted on the rig's BOP handler.

Client

Marathon Oil Corporation

Location

North Dakota, USA

Field

Bakken field

Formation

Shale

Products/Services

Rapid-Lock connector

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