



Weatherford®

REAL RESULTS

Mechanized Tubular Running Services Prove Essential in Deepwater Gulf of Mexico, Incur Zero NPT, HSE Incidents

Objectives

- Provide tubular running services with zero nonproductive time (NPT) or health, safety, or environmental (HSE) incidents.
- Create and implement an operator-specific, nonmarking (zero-indentation) system to run 38-in. structural casing.
- Provide contingency equipment to the rig's primary iron roughneck.

Results

- Over 24 wells in a six-month campaign, Weatherford mechanize tubular running services (TRS) ran 153,840 ft (46 890 m) of casing for a total weight of 39,197,141 lb (17 816 882 kg).
- Weatherford's mechanized tubular running services incurred zero NPT and zero HSE incidents.
- The Weatherford in-house engineering group designed an elevator to API 8C and an integral baseplate to API 7K for the running of 38-in. structural pipe. The system provided nonmarking capabilities during handling and torqueing operations. The project spanned 90-days, from the defining of project deliverables, design, manufacturing, and implementation on the rig.
- Weatherford's TorkWrench™ achieved a run greater than 120 days of NPT-free service during the direct replacement of the primary iron roughneck.

Value to Client

- The Weatherford proprietary hands-free, mechanized rig systems removed personnel from potentially hazardous areas, reducing operational risks.
- Weatherford reduced TRS-related costs by 25%, relative to planned expenditures.
- The Weatherford TorkWrench reduced trip times by 30%, while eliminating rig down-time associated with the failure of the rig's primary iron roughneck.



The Weatherford PowerFrame® II system positions power tongs on the rig floor from a standby position to the well center and/or mousehole. The lightweight frame is adaptable to most rig floor designs. One person can set up the entire system, which is compatible with Weatherford's tubing, casing, and drillpipe tongs.

Location

Gulf of Mexico

Well Type

Offshore (deepwater)

Type of Operation

Batch set development wells

Products/Services

- Mechanized casing tongs: 14-100 and 30-100
- Mechanized TorkWrench 10-145
- PowerFrame II tong-positioning system
- Integrated safety interlock system
- 38-in. non-marking casing handler and integral baseplate
- Automated side-door elevators
- RMS 3000 rotary-mounted spider

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