

Rig-Free® Unit Completes Late-Stage Workover in Four Offshore Wells, Improves Production by ≥300%



The Rig-Free 200/600 heavy-duty pulling and jacking unit served as a base for a full suite of Weatherford workover services, which changed the economics of the wells and increased production by at least 300 percent.

Objectives

- Provide a comprehensive late-stage production workover for a series of four Gulf of Mexico wells from a single platform. The wells had clogged and degraded downhole chrome tubing, and the gas-lift mandrels had exceeded their working life.
- During the planning phase of the operation, the operator requested Weatherford Rig-Free technology to reduce the overall cost of the operation. The units not only replace conventional rig systems, but also serve as a more compact and economic replacement for snubbing units and crane-based workover units.

Results

- Weatherford deployed the Rig-Free 200/600 heavy-duty pulling and- jacking unit. Because of its small footprint and modular design, the unit was assembled on the client’s platform in less than 70 hours.
- The team used the Rig-Free unit as a versatile base for several Weatherford diagnostic and workover services. First, the team used the Rig-Free unit for wireline services, which included a gamma-ray analysis of the wells. Next, Weatherford slickline and tubular running services removed the corroded chrome tubing using chemical cutters and ran new tubing into the wells without any additional nonproductive time (NPT). The unit then served as a base to cement the tubing in place.
- The team used the Rig-Free unit as a base for Weatherford e-line and slickline services, which provided a means to install new gaslift mandrels and to conduct logging and perforating operations.
- Following these operations, the wells began producing at a rate that was at least 300 percent more than prior levels.



LOCATION

Gulf of Mexico, United States

WELL TYPE

Natural gas

WATER DEPTH

75 ft (23 m)

WELL DEPTH

11,000 ft (3,353 m)

PRODUCTS/SERVICES

- Rig-Free 200/600 pulling and jacking unit
- Tubular running services
- Wireline services
- Slickline services
- E-line services
- Pressure-control equipment
- Fishing services



Rig-Free® Unit Late-Stage Workover Using the Rig-Free® Unit Improves Production by $\geq 300\%$

Value to Client

- The Weatherford team changed the economics of the four wells compared to the cost of a standard workover, which would have forced plug-and-abandonment operations. By using the Rig-Free pulling-and-jacking unit instead of a conventional rig and snubbing unit, the team delivered a quality workover at a fraction of the cost.
- The operation extended the economic life of the asset and increased production by at least 300 percent.
- The modular design of the Rig-Free unit enhanced operational safety when a tropical storm entered the Gulf. The unit was secured in hurricane mode in slightly more than 24 hours.

