

Firma™ Abandonment Solution

Helps Kill, Plug 10 Wells in 234 Days, Saves Operator \$10.8 Million in Gulf of Mexico

Objectives

- Provide a multidisciplinary, single-source solution for intervention and plug-and-abandonment operations in 10 wells located in the Gulf of Mexico.
- Kill and plug the wells safely and efficiently.

Our Approach

- Weatherford provided a Firma abandonment solution that included equipment tailored to the operator's requirements, including a pulling-and-jacking unit.
- The pulling-and-jacking unit served as the foundation for all operations. The unit provides pulling capabilities of 220,000 lbf (99,790 kgf), jacking capabilities of 600,000 lbf (272,155 kgf), and the capability to hold up to 6,200 ft (1,890 m) of 3 1/2-in. tubing.
- The skid clamping assembly and the modular design of the pulling-and-jacking-unit resulted in an average well-to-well move time of 1 hour, better than the industry standard.
- The decommissioning service package successfully plugged and abandoned 10 wells quickly without safety issues.
- The equipment and personnel associated with this intervention and abandonment project received the first perfect score ever recorded for this operator (when judged against its other Gulf of Mexico operations). The award is based on safety, performance, and nonproductive time.

Value to Customer

- Using a Weatherford Firma abandonment solution—including single-source intervention and abandonment equipment and highly qualified personnel—enabled the operator to kill and plug 10 wells in 234 days. The solution completed operations 108 days ahead of schedule and \$10.8 million under budget.
- The modular design of the Weatherford pulling-and-jacking-unit enabled the operator to move the unit from well to well in only 1 hour, which saved rig time and associated costs.



The Weatherford pulling-and-jacking unit was an integral part of the turnkey solution for the intervention and plug-and-abandonment operations that killed and plugged a total of 10 wells—108 days ahead of schedule and \$10.8 million under budget.

LOCATION

Mississippi Canyon, Gulf of Mexico, USA

NUMBER OF WELLS

10

WELL TYPE

Offshore

PRODUCTS/SERVICES

- Firma abandonment and slot recovery solutions
- Decommissioning services
- Tubular running services
- Cementing products
- Pulling-and-jacking unit
- Dual-drum wireline unit
- E-line downhole services
- Hydraulic multistring cutting saw
- Double-drill boring machine
- Certified blowout preventers and drillpipe



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Value to Customer (continued)

- The pulling-and-jacking unit is certified to operate in inclement weather, with a full rack of pipe, in wind speeds up to 60 knots, which enabled the operator to save rig time, associated costs, and nonproductive time.
- The coiled tubing capacity of the pulling-and-jacking unit increased operating efficiency and enhanced safety by eliminating manual handling of the tubing.
- The capabilities of the pulling-and-jacking unit enabled the operator to use the platform crane for other simultaneous operations, which enhanced safety and saved rig time and associated costs.



Weatherford provided a multidisciplinary intervention and abandonment service package with customized equipment that met all the operator's requirements.

