



Weatherford®

REAL RESULTS

Single-Source Abandonment Services for 22 Wells Saves Operational Costs and Reduces NPT

Objectives

- Improve efficiencies for all aspects of well abandonment in 22 wells. Phase 1 involved the plugging and abandonment (PA) of 18 shut-in or temporarily abandoned wells up to, but not including, the cutting and removal of casing strings. Of the 22 total wells in this project, five wells were shut in and required temporary plugging and abandonment (TPA) using only rigless equipment. Four TPA wells were on the U.S. Bureau of Safety and Environmental Enforcement (BSEE) Idle Iron deadline to undergo PA. All remaining wells were to be taken from TPA to PA in batches of two to four wells.

Results

- Weatherford deployed innovative, late-stage intervention and abandonment equipment and technologies, including the proprietary Rig-Free™ pulling and jacking unit (PJU). Other specialized equipment included a dual-drum wireline unit for e-line/slickline diagnostic work, cementing products, blowout preventers (BOP), fishing and re-entry tools, and a power swivel, which was used for all section milling operations.
- To coordinate operations more efficiently, Weatherford sent an extra supervisor to assist the wellsite supervisors. This increased the time that four supervisors spent on deck directing operations.
- By streamlining and planning well work, the operator could move to the next well in the batch with reduced skidding time of the PJU from well to well.
- The operator had spent considerable time attempting to remove bolts in the wellheads. By sending a crew to prepare the wellheads for removal in advance of the well work and skidding the PJU into place, additional efficiencies were realized.



Weatherford well abandonment services, including the proprietary Rig-Free PJU, offered an efficient method for PA in 22 wells. It also saved the operator the cost of using conventional or jack-up drillings rigs, and cut nonproductive time (NPT) to just 3 percent of overall operational time.

Date

November 2012 to January 2014

Location

Mississippi Canyon, Gulf of Mexico

Number of Wells

22

Surface and Conductor Casing Pressure

5 to 1,000 psi (0.03 to 6.89 MPa)

Products/Services

- PA services
- Tubular running services
- Cementing products
- Rig-Free pulling and jacking unit
- Dual-drum wireline unit
- Rental tools—BOP and drillpipe
- Fishing and re-entry services

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Value to Client

- Using the Rig-Free™ PJU saved the operator the costs of using conventional or jack-up drilling rigs.
- The PJU freed the platform crane to perform simultaneous operations, which improved safety and efficiency.
- Nonproductive time (NPT) accounted for just 3 percent of overall operational time.
- The operator received a variety of intervention and well abandonment services from a single source. This collaborative partnership, both internally and externally, ensured that value, profitability, and efficiencies were maximized.

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