

UAE

# Advanced Pulling and Anchoring System Enables Efficient Multi-String Casing Recovery

Integrated PullMaster® system and C-Plate solution saves 15+ days of rig time in slot recovery operation

A key performance indicator for slot recovery operations is the ability to recover or mill casing to the target depth. A customer in the UAE faced a challenging well in which both 9-5/8" and 13-3/8" casings were cemented to surface and required retrieval for the slot recovery operation. Conventional solutions involve milling long sections of casing and require multiple milling runs, which ultimately reduces overall slot recovery efficiency.

The customer required a precise, technically advanced solution to systematically recover the 400+ ft intervals of cemented 9-5/8" casing inside the 13-3/8" casing, followed by recovery of the 13-3/8" casing cemented inside the 18-5/8" casing. Wellbore Integrity Solutions provided an integrated, optimized casing pulling solution by incorporating the PullMaster® modular casing pulling system and the engineered C-plate bottom hole assembly (BHA) anchoring system, significantly enhancing offshore rig pulling capacity.

The 9-5/8" and 13-3/8" casing cut depths were determined after reviewing the casing tally, cement bond logs, and casing collar locator logs. A detailed roadmap was developed to guide the cutting and recovery process. After the casings were cut, the PullMaster modular system was deployed to apply 900 klbs of overpull force, with the BHA anchored on the rig floor using the C-plate. The PullMaster successfully recovered more than 400 ft of both 9-5/8" 47 lb/ft C-75 casing and 13-3/8" 68 lb/ft K-55 casing. The PullMaster system saved the customer over 15 days of operational rig time.

## CHALLENGE

- 9-5/8" and 13-3/8" casing strings fully cemented to surface
- Required recovery of 400+ ft casing intervals within nested strings
- Conventional milling would require multiple runs and extended rig time
- Increased operational complexity, cost, and risk impacting slot recovery efficiency

## SOLUTION

- Deployed PullMaster modular casing pulling system with C-Plate anchoring BHA
- Engineered plan based on casing tally, cement bond logs, and CCL data
- Optimized casing cut depths for controlled recovery
- Applied up to 900 Klbs overpull with BHA securely anchored at rig floor

## RESULT

- Successfully recovered 400+ ft of 9-5/8" casing and 400+ ft of 13-3/8" casing
- 15 days of operational offshore rig time saved
- Over 900 Klbs of pull force was applied to free the stuck casing utilizing the PullMaster system
- A total of 73 pulling cycles across 12 runs were applied to free stuck casings successfully

