

# **REAL RESULTS**

Two-Pod Mill Dressed with CustomCut<sup>™</sup> Inserts Mills Cemented, Dual-String Tubing, Enables Reperforation of Target Zone



Weatherford milled 217 ft (66 m) of cemented, dual-string, 2 3/8-in. tubing and  $2 - \times 3$  1/2-in. gas-lift mandrels at an average ROP of 5.2 ft/hr (1.5 m/hr), reducing the number of mill runs and costs normally associated with milling operations.

### Objectives

 Mill 217 ft (66 m) of cemented, dual-string, 2 3/8-in. tubing and gas-lift mandrels to facilitate reperforation of an upper zone. During a cement squeeze of a lower zone, the operator experienced a tubing failure at 6,172 ft (1,881 m) while cementing inside a 7-in. production casing.

### **Results**

- Weatherford deployed its two-pod milling system dressed with *CustomCut* inserts. This system is designed to mill wellbore tubulars that are cemented internally and externally.
- A total of 217-ft (66-m) of cemented, dual-string, 2 3/8-in. tubing and 2- × 3 1/2-in. gas-lift mandrels were milled at an average rate of penetration (ROP) of 5.2 ft/hr (1.5 m/hr).
- The wellbore was cleared, and the operator reperforated the 7-in. casing in the upper zone.

## Value to Client

- Weatherford's two-pod mill dressed with *CustomCut* inserts enabled the operator to mill the cemented, dual-string tubing and gas-lift mandrels with ROP twice as fast as conventional mill designs.
- The two-pod mill solution reduced the number of milling runs, significantly improving operational efficiency and saving rig time.
- The two-pod mill minimized safety risks normally associated with milling operations.

Weatherford's two-pod milling system is designed to mill wellbore tubulars that are internally and externally cemented. With enhanced geometry, this system has exceeded the ROP of standard crushed-carbide and insert-dressed mills, extending mill life up to 500 percent over standard mills, minimizing the number of trips required for milling operations and saving rig time and associated costs.

Location Louisiana, Gulf of Mexico, USA

Well Type Offshore, oil and gas producer

Measured Depth 6,172 ft (1,881 m)

Casing 7 in., 23 lb/ft

#### Products/Services

- Two-pod milling system
- CustomCut inserts

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