



# Weatherford®

## REAL RESULTS

### Two-Pod Mill Dressed with CustomCut™ Inserts Mills Cemented Fish, Enables Sidetrack to Reservoir, Eliminates Second Well

#### Objectives

- Cut and mill 109 ft (33.2 m) of 3 1/2-in. cemented tubing inside a 7-in. 29 lb/ft production casing.
- Set a whipstock and sidetrack the well to regain production from a strategic reservoir. If unable to remove the cemented fish and sidetrack the well, the operator would need to drill a second well, incurring substantial rig time and associated costs.

#### Results

- Weatherford's fishing and re-entry services successfully cut and pulled the 3 1/2-in. tubing just above the cemented fish at 4,661 ft (1,420.6 m).
- A 6 1/8-in. OD two-pod cemented tubular mill dressed with CustomCut inserts was run and milled to 94 ft (28.6 m) before encountering loose tubing and coring out.
- Weatherford personnel deployed a second two-pod mill and milled out the remaining 15-ft (4.5-m) tubing section to the operator required depth. The entire milling operation lasted 14 hours with an average rate of penetration (ROP) of 8 ft/hr (2.4 m/hr).
- With a clean wellbore, the operator successfully set a bridge plug, ran a 7-in. whipstock, and sidetracked the well, recuperating reservoir production.

#### Value to Client

- Using Weatherford's two-pod mill system enabled the operator to mill the cemented tubing and prepare the wellbore for a sidetrack operation.
- The sidetrack well was drilled successfully, enabling the operator to regain access to a strategic reservoir, eliminating the need to drill a new well, and saving substantial rig time and associated costs.



Weatherford milled 109 ft (33.2 m) of a cemented 3 1/2-in. tubular at a ROP of 8 ft/hr (2.4 m/hr), enabling the operator to sidetrack the well and regain production from a strategic reservoir and eliminating the need to drill a second well. The two-pod mill dressed with CustomCut inserts performed well with nominal wear. The left photo shows the first two-pod mill before it was deployed, and the right photo shows the two-pod mill after it milled 94 ft (28.6 m).

#### Location

Indonesia

#### Well Type

Offshore, oil producer

#### Depth

4,661 ft (1,420.6 m)

#### Casing

7-in., 29-lb/ft special drift

#### Products/Services

MillSmart<sup>SM</sup> technology

Two-pod mills

CustomCut inserts

7-in. whipstock

Weatherford  
Brian Bavidge  
Fishing and Re-entry Coordinator  
brian.bavidge@ap.weatherford.com

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