



Weatherford®

REAL RESULTS

Two-Pod Milling System with MillSmartSM Technology Successfully Mills Cemented Tubing, Increase ROP in Argentina

Objectives

- Provide an effective method of milling cemented tubing and a Model P1 drillable bridge plug.
- Enhance the rate of penetration (ROP) during milling and improve on standard milling parameters of 1.64 ft (0.5 m/hr).

Results

- Weatherford's fishing and re-entry services were used to successfully mill the cemented tubing with exceptional ROP. The entire operation was completed with one mill.

Value to Client

- Using Weatherford's two-pod milling system with *MillSmart* technology enabled the client to mill the cemented tubing and increase ROP.
- The speed and success of the operation saved the client significant rig time and the associated costs.



Extensive research and design improves milling performance on cemented tubulars.



Weatherford's new two-pod mill is designed and ruggedly constructed to mill wellbore tubulars that are internally and externally cemented. With its enhanced geometry, this mill has exceeded the rate-of-penetration (ROP) performance of standard crushed-carbide and/or insert-dressed mills. This improved performance extends mill life by up to 500 percent over that of standard mills, minimizing the number of trips required for the milling operation and for mill change-out and thereby saving valuable rig time.

Client

Apache Argentina

Location

Argentina, Tierra del Fuego

Casing Size and Weight

5-1/2 in., 15.5 lb

Milled Length

33 ft (9 m) tubing

Milling Time

2.5 hr

ROP Average

13.78 ft/hr (4.2 m/hr)

Products/Services

Fishing and re-entry services

- Two-pod milling system
- *MillSmart* technology