

Endura[®] Dual-String Section Mill Deployed Offshore for First Time to Provide Rock-to-Rock Cement Barrier, Saves \$1.88 Million in Rig Time

Objectives

- Relieve pressure on two annuli, where a top-up cement job between the 9 5/8-in. and 13 3/8-in. casing annulus was performed without success by the operator.
- Minimize milling trips and operational time and expense.
- Create a clean window to deploy cut out assembly.
- Remove section of 13 3/8-in. casing to enable a cement barrier installation.
- Adhere to strict industry P&A regulations.

Our Approach

- An A-1 section mill was used to remove a 115-ft (35-m) section of 9 5/8-in. casing, facilitating a clean, usable window.
- The Weatherford Endura dual-string section mill (DSSM) was deployed for the first time, reaching TD and performing the cut out successfully.
- A milling-blade tool was run in hole, removing 98 ft (30 m) of 13 3/8-in. casing, enabling the operator to install a rock-to-rock cement barrier within the operator's stringent P&A regulations.

Value to Client

- A clean window was created in a single trip, saving significant rig time and enabling the cut out operation to be performed.
- The 9 5/8-in. and 13 3/8-in. casing sections were removed, allowing the cement barrier to be installed to relieve pressure on the annuli.
- The use of the Endura section mill saved the operator 4.9 days of rig time valued at US \$1.8 million, and minimized operational risk by reducing the amount of casing that had to be milled.
- The operation was performed successfully within the operator's strict P&A regulations.



The Endura DSSM features specially designed blades and stabilizers that provide two points of stabilization while creating finer, more manageable cuttings.

LOCATION

Offshore Australia

WELL TYPE

Shallow platform

CASING SIZE AND TYPE

- 9 5/8-in., 47-lb/ft L-80
- 13 3/8-in., 68-lb/ft L-80

PRODUCTS/SERVICES

- Fishing and re-entry services
- Endura dual-string section mill
- A-1 section mill
- Dailey hydraulic jars and stroking tools

* Endura is a registered trademark of Weatherford.

