

# Efficiency Meets Reliability

## RipTide® Drilling Reamer Optimizes Large Hole Underreaming for Offshore Operations

### Objectives

- Expand from 21 to 24 in. using PDC cutters to avoid casing run issues.
- Provide a mechanical ball-drop system that activates at the surface and passes through restrictions smaller than 21 in.
- Ensure the tool can be re-run if necessary and being dressed in country under operator supervision.

### Our Approach

- Weatherford deployed the RipTide single ball-drop reamer, 16500 series, capable of opening to 24 in.
- The RipTide reamer is a concentric mass-balance underreamer capable of enlarging the borehole below casing restrictions. The versatile reamer can simultaneously drill and enlarge when used in conjunction with a rotary-steerable system (RSS), motor, or rotary bottomhole assembly.
- In its deactivated mode, the tool's OD is 18-3/8 in., allowing it to pass through casing restrictions of less than 21 in.
- The tool was redressed locally in accordance with the operator's QAQC processes.

### Value to Customer

- The primary tool successfully enlarged the section up to 1,355 ft (413 m) without any hangups, aided by a spring sub in the assembly.
- A second underreamer was deployed for the next batching well, and the same tool was re-run for a third well.
- Both operations were completed without issues.
- This marked the first global run of Weatherford technology opening to 24 in., setting a benchmark for large-hole underreaming.



The RipTide 16500 reamer is designed to grip the reamer body at full actuation, providing less vibration and better performance in underreaming operations.

#### LOCATION

Matak, Indonesia

#### WELL TYPE

Offshore, development

#### FORMATION

Soft

#### HOLE SIZE AND ANGLE

21 x 24 in., 24°

#### TEMPERATURE

123°F (50°C)

#### DEPTH

670 to 2,025 ft (204 to 617 m)

#### PRODUCTS/SERVICES

- RipTide single ball-drop drilling reamer, 16500 series
- CENTRO™ well construction optimization software (for planning)
- HD cutter blocks

