

RipTide[®] RFID Drilling Reamer Helps to Save 20 Hours of Rig Time Valued at \$453,000



The RipTide RFID drilling reamer simultaneously drilled and enlarged a borehole from 6.75 to 8.5 in., which eliminated a dedicated hole-opening run and saved US \$453,000.

Objectives

- Enlarge a 6.75-in. hole in a deviated well to 8.5 in.—without the need for a dedicated hole-opening run and without producing a significant rathole.

Our Approach

- The Weatherford RipTide radio-frequency-identification (RFID) drilling reamer was placed in the drillstring below measurement-while-drilling (MWD) and logging-while-drilling (LWD) tools and just above the bit. (The fullbore inside diameter of the reamer, as well as the flexibility to activate and deactivate the reamer using either RFID tags or pressure cycles, enables operators to place it anywhere on the drillstring.) Upon pumping down RFID tags to activate the cutters on demand, the drilling reamer enlarged the hole from 6.75 in. to 8.5 in. The distance between the cutters and the bit was 10 ft (3 m), resulting in an unavoidable but minimal rathole.
- The operation was completed without any recordable incidents and without any disruptions in service quality.

Value to Customer

- By eliminating the need for a dedicated hole-opening run, which would have otherwise been required to prevent the creation of a large rathole, the RipTide drilling reamer saved 20 hours of rig time valued at US \$453,000.
- The operator gained a successful strategy for enlarging boreholes in future wells drilled in the same field.

LOCATION

Malaysia

WELL TYPE

Offshore, deviated, development, oil

FORMATION

Sand

INITIAL HOLE SIZE AND ANGLE

6.75 in., 46°

FINAL HOLE SIZE AND ANGLE

8.5 in., 51°

TEMPERATURE

104°F (40°C)

CUTTER DEPTH

6,097 to 6,725 ft (1,858 to 2,050 m)

PRODUCTS/SERVICES

RipTide RFID drilling reamer

