RipTide® and JetStream® RFID Tools Complete Multiple Operations in a Single Trip, Save 2 to 3 Days of Rig Time

Objectives

- Ream 154 ft (47 m) of rathole in an offshore well and prepare the wellbore for completion.
- Minimize trips and drilling time. The operator had previously used a reamer that could not be deactivated while downhole, which necessitated additional trips.

Our Approach

- Weatherford deployed both the RipTide RFID drilling reamer and the JetStream RFID circulation sub in the same bottomhole assembly (BHA).
- The team activated the RipTide reamer using RFID tags. After the RipTide tool had reamed the rathole, RFID tags were again deployed to deactivate the tool. With the reamer closed, the operator was free to rotate and move the drillstring without the risk of creating additional cuttings.
- Again using RFID technology, the team actuated the JetStream sub to clean cuttings from the borehole.
- The RipTide and JetStream tools each recorded downhole hydraulic data. Weatherford used this data to deliver a complete analysis of pressure changes during the reaming and cleaning operations.

Value to Client

- Because the RipTide reamer can be activated and deactivated on demand, the operator did not need to pull out the reaming BHA before cleaning the wellbore.
- By enabling a reamer and a circulating sub to be deployed and activated during the same trip, Weatherford RFID technology saved the client the time and cost of a dedicated wellbore-cleaning trip.
- In total, the single-trip operation saved 2 to 3 days of rig time, valued at between US $700,000 and $1,000,000.

RFID technology enables selective, unlimited actuation of multiple tools during a single trip.

LOCATION
Baku, Azerbaijan

WELL TYPE
Offshore, directional

HOLE SIZE
- 6.25 in. prior to reaming
- 8 in. after reaming

DEVIATION ANGLE
71°

DEPTH
16,043 ft (4,890 m)

PRODUCTS/SERVICES
- RipTide RFID drilling reamer (6000 series)
- JetStream RFID circulation sub (5250 series)

* RipTide and JetStream are registered trademarks of Weatherford in the US.