Two Diameters. One Trip. Zero Casing Delays.

Surface-Controlled RFID Reamers Enable Heavy-Wall Casing to Reach Bottom of Complex Salt Interval

Objectives

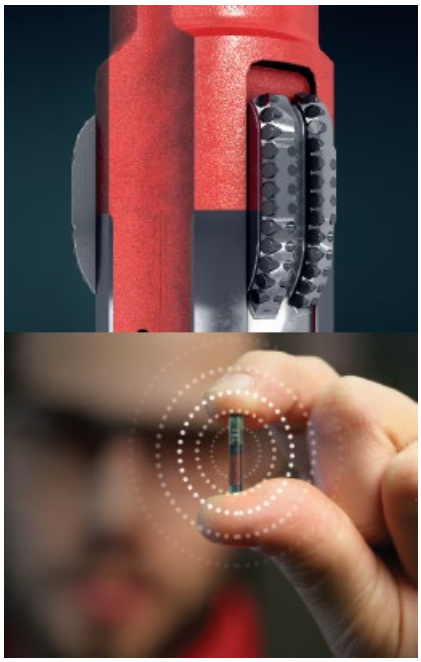
- Safely drill and case a challenging directional exploration interval through a complex formation sequence that included a creeping salt section.
- Avoid offset-well issues—including stuck drillstring, casing-running difficulty, and nonproductive time—by creating sufficient salt-zone clearance to run and cement heavy-wall casing as planned.
- Achieve a fit-for-purpose, formation-specific hole profile in a single run without added trips, rig time, or operational complexity.
- Support successful installation of heavy-wall casing and long-term isolation of the salt zone while enabling the well to progress without delay.

Our Approach

- Deployed the Weatherford RipTide® RFID-activated drilling reamer system as part of a borehole enlargement service.
- Configured two different-diameter RipTide reamers in one bottomhole assembly to enable selective, multi-diameter enlargement in a single run.
- Used RFID activation and control technology to independently open and close each reamer from the surface without additional trips, reamer runs, or bottomhole assembly (BHA) changes.
- Drilled a 14 1/2-in pilot hole, then ran the tandem reaming assembly to enlarge the interval in one trip.
- Enlarged the hole above the salt section first, creating sufficient clearance below the casing shoe.
- Sent surface-transmitted RFID commands to deactivate the first reamer and activate the second, selectively enlarging the salt interval to a larger diameter.
- Reversed the reamer sequence at total depth to eliminate the remaining rathole below the enlarged section.
- Delivered precise, on-demand control of borehole diameter across formation-specific risk zones while maintaining operational efficiency.

Value to Customer

- Completed selective borehole enlargement in one trip, eliminating additional reamer runs or BHA changes and avoiding added rig time.
- Enlarged 1,781 ft (543 m) of the wellbore from 14-1/2 to 16 in above the salt section and 833 ft (254 m) to 17-1/2 in across the salt interval.



The RipTide RFID-activated drilling reamer enlarges holes up to 30% beyond bit diameter. The tool, with its dynamic activation options, expands existing pilot holes, underreams-while-drilling with rotary-steerable assemblies, and underreams below casing with tight restrictions.

LOCATION
Austria

WELL TYPE
Exploration, directional

PRODUCTS/SERVICES
RipTide RFID-activated drilling reamer system

Weatherford®

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Value to Customer (continued)

- Confirmed the planned hole geometry with caliper logs, completed wireline logging without incident, and ran and cemented heavy-wall casing as planned.
- Mitigated stuck-pipe and casing-running issues experienced in offset wells while reducing nonproductive time.
- Achieved reliable isolation of the salt interval and enabled the well to progress to the next phase without delay.

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