

QuickCut ProSM Service Completes 20-in. Casing Exit, Enables Remote Collaboration That Saved 2 Trips in the North Sea

Objectives

- Execute a 20-in casing exit on a North-Sea platform.

Our Approach

- Weatherford deployed the QuickCut Pro service, which consists of the QuickCutTM casing-exit system, the AccuView[®] collaboration system, an onsite team of specialists, and an onshore-based team of experts.
- The onsite Weatherford crew tripped the 20-in. QuickCut system into the well and began the exit. Despite a lengthy planning phase, two complications arose during the exit. The AccuView system, however, facilitated real-time communications between the onsite crew and a team of onshore experts. This enabled the onsite crew to remain focused on the job, while the onshore team researched and calculated a recommended solution.
- The first issue was related to setting the anchor based on flow rate, an issue which would ordinarily necessitate a trip out of hole. The onshore team ran a series of “what-if” scenarios in the AccuView hydraulics application in parallel with rig operations. Based on the scenarios, the teams selected a hydraulic solution that guaranteed successful anchor setting so that the operation could continue without interruption.
- The second issue occurred during the casing window milling sequence. The rate of penetration (ROP) declined to a rate that indicated the mill cutting structure required replacement, which would require a round trip. However, the onshore team used the AccuView system to research the performance history of the bottomhole assembly (BHA) on other wells at similar conditions. Analysis revealed that, with minor parameter adjustments, the current BHA would have a high probability of completing the window in a single trip. Target milling parameters were adjusted and monitored remotely from shore, which saved a trip.
- The team completed the exit in one trip lasting 7 hours and 40 minutes.

Value to Customer

- The Weatherford QuickCut Pro service, powered by the AccuView system, performed a flawless 20-in. casing exit in one trip.
- The operation was completed with no additional nonproductive time and with zero safety incidents or near misses.
- The AccuView system enabled real-time collaboration between the onsite crew and an onshore team of experts. The real-time solutions suggested by the onshore team met the operational objectives and also saved two time-intensive round trips.



The Weatherford QuickCut Pro service, powered by the AccuView system, enabled real-time collaboration between an onsite Weatherford crew and an onshore team of Weatherford experts. This collaboration mitigated job risk and saved two trips out of hole.

LOCATION

North Sea, The Netherlands

WELL TYPE

Offshore multipad exploration

CASING SIZE AND TYPE

20-in., 94-lb/ft X-56

CASING-EXIT DEPTH

1,553 ft (473 m)

PRODUCTS/SERVICES

- QuickCut Pro service
- QuickCut casing-exit system
- AccuView system

