

Drill Bits & Services

GeoTech™ fixed cutter drill bit with TDReam™ and XR Reamer™ hole-enlargement tools set records and save rig time for operator

Location: Offshore Norway

Overview

In the frigid waters of the North Sea, Halliburton Drill Bits & Services helped a customer meet tough drilling challenges while setting records in the process – records that resulted in big savings of both rig time and money.

The operator wanted a higher rate of penetration (ROP) and the ability to drill to TD in a single run with a bit and reamer combination. Halliburton recommended the next-generation GeoTech™ bit with its cutting-edge-technology materials in combination with its TDReam™ and XR Reamer™ hole-enlargement tools. Drill Bits & Services deployed its Design at the Customer Interface (DatCISM) process in partnership with the customer to customize the precise bit design and reamer setups that would maximize ROP and minimize rig time.

The solution proved exceptional, enabling drilling to TD of this section of the well in one shot while simultaneously enlarging the hole. This resulted in saving the operator more than 11 hours of drilling time. In the process, with drilling depths measured at more than 4,115 m (13,484 ft), the operation also set records for the longest run in Norway, the longest overburden run by the operator there, and the longest TDR1200™ tool run globally.



HAL33011

A drilling Rig in the North Sea

CHALLENGES	SOLUTIONS	RESULTS
<ul style="list-style-type: none"> Minimize drilling time to TD Maximize drill bit life to extend run length 	<ul style="list-style-type: none"> Activate the DatCI process to couple new GeoTech technology with XR Reamer and TDReam tools Use the latest GeoTech fixed cutter bit to provide industry-leading design, materials, and simulation 	<ul style="list-style-type: none"> Saved over 11 hours of rig time by increasing drilling efficiency while also reducing rat hole length Dull grade of the bit after the run showed minimal damage of the bit, indicating a superior design and material combination



The next generation of PDC bits

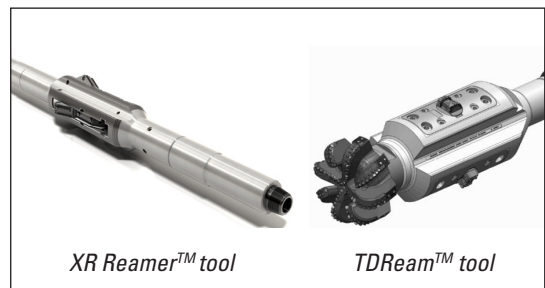
Each design of GeoTech matrix-and-steel-body bits is truly optimized to deliver a new level of performance in its given application. GeoTech fixed cutter bits incorporate industry-leading matrix/binder materials, leading-edge polycrystalline diamond compact (PDC) cutter technology, and advanced computational fluid dynamics (CFD) hydraulics optimization. Application-specific engineering is applied through the DatCI process to each bit, enabling it to yield optimum performance regardless of the application.



GeoTech™ fixed cutter bit

Reduce rathole length while increasing risk mitigation

Run in conjunction with the XR Reamer tool, the TDReam tool is Halliburton's newest downhole innovation designed to significantly reduce rathole length and reach TD in one run. With this combination, there is no longer any need to create a long rathole and then take an extra trip to enlarge the hole to TD.



XR Reamer™ tool

TDReam™ tool

HAL39570

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