CASE STUDY- 2020- NORTH SEA

The THOR® System Enables Pulling of 395 meter of 9 5/8" Casing from Settled Barite

Challenge

Vigdis is a field in the Tampen area in the northern part of the North Sea, between the Snorre, Statfjord and Gullfaks fields, with a water depth of 280 metres.

Simulations during the planning of the P&A work for Vigdis E-4 well showed that up to 400 meters of 9 5/8" casing with settled barite have to be retrieved, above the deepest planned cut.

Solution

Multiple cutting, pulling and/ or jacking 400 meter casing in settled barite is very time consuming, and to reduce the rig time for pulling casing the Archer THOR® System was utilized to efficiently retrieve the 400 meter casing.
The THOR® Casing Cleaning and Recovery System enables the operator to perforate, clean and recover the casing all in a single trip using TCP to avoid damage to the outer casing.

THOR® delivers step change in performance pulling longest casing strings from settled barite.

Result

The 9 5/8" casing was first cut at 1313 mMD to 1708 mMD by using the THOR® System to dress, tag cement and cut the casing. The 395 meter casing was successfully perforated, washed and pulled free with 45 ton overpull without any NPT. The operation was delivered efficiently and proves that the THOR® System is the solution for retrieving casing stuck in settled barite when performing sidetracks/ logging operations. The THOR® System is recommended for future use in Equinor.

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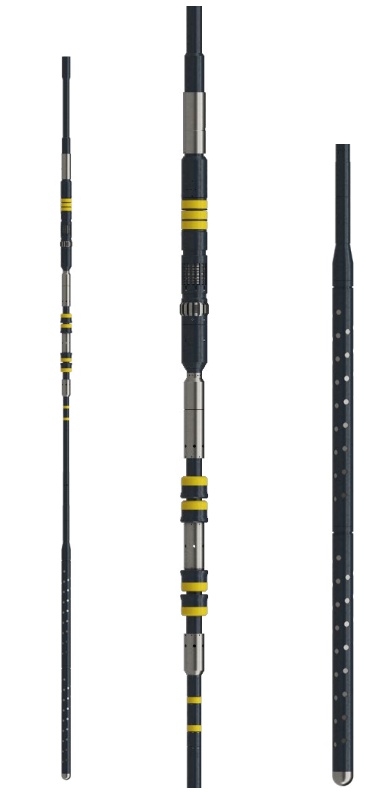

Full THOR® assembly including TCP | Part of THOR® assembly | TCP

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