


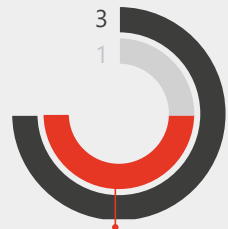


TRIDENT® SYSTEM SAVES 14,5 HOURS RIG TIME



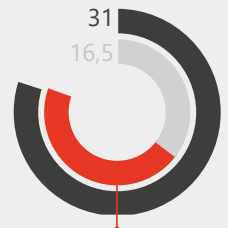
TRIDENT delivers 46% efficiency gain in P&A casing recovery operation

Industry Standard 
 Ardyne Operation 
 Customer Savings 



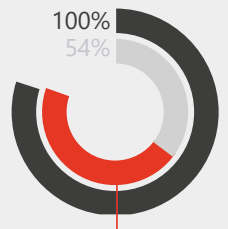
2

TRIPS SAVED



14,5

HOURS SAVED



46%

EFFICIENCY GAIN

SINGLE TRIP FUNCTIONALITY - Dress, Test, Cut, Circulate and Pull

- Tag / Dress cement as required to 7,630ft – verify Top with 10K set down weight
 - Set Anchor & Packer to positive test cement plug
 - Inflow test functionality available if required
 - Reposition assembly to cut depth, set anchor and applied 50K overpull to put casing in tension and cut casing at 4 090ft
 - Set Tension Set Packer above cut to circulate
 - Verify casing free – with pressure and overpull
 - Reposition to top of stump and reset TRIDENT Anchor
 - Retrieve casing to surface from 2 234ft
- = 14,5 hours rig time savings**

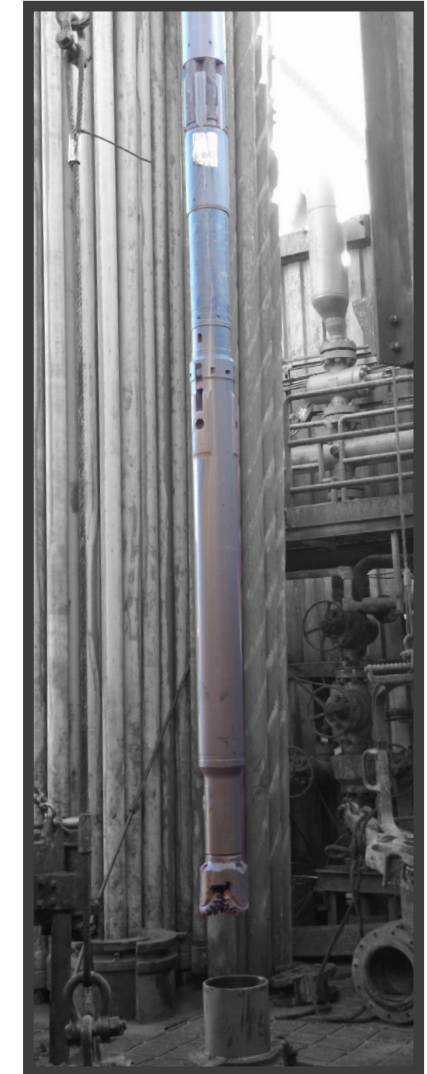
THE OPERATION

A North Sea operator conducted a permanent P&A operation on a fixed installation. The well had previously been temporary abandoned by setting a cement plug and recovering the 9-5/8" casing down to 2 234ft. Casing was preferred to be cut in tension due to potential free standing stump.

THE SOLUTION

TRIDENT™ conducted the operation in a single run. Initial dressing and tagging of cement plug was conducted prior to relocating to cutting depth. With the TRIDENT Anchor set, sufficient overpull was applied to stretch the casing and the cut was completed in 2min. An attempt to circulate the annulus was conducted, but debris was blocking the annulus. Verification that the casing was free was conducted by increasing the overpull on the TRIDENT Anchor and movement was seen with pressure dropping off. Relocating the anchor to the top of the casing stump and recovered the casing to surface.

For more information on the TRIDENT System click [HERE](#)



TRIDENT System