

# RECOVER STUCK 9 7/8" CASING FROM OPEN HOLE

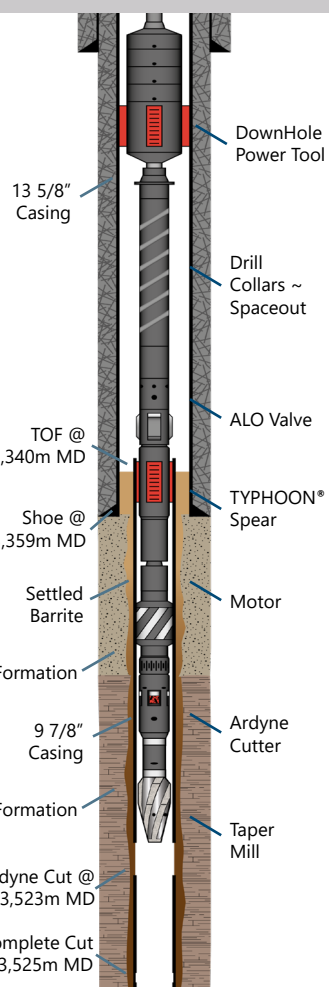
**TITAN® System recovered casing from high temperature well in the North Sea to enable open hole sidetrack**



Stuck casing located  
166m into open hole

Recovery from creeping  
formation and cement traces

426m of casing recovered  
two trips - 581 ton pullforce



## THE CHALLENGE

- Recovery of 9 7/8" 66# SM125S casing down to 3,525m MD
- Casing stuck 166m in open hole - well containing traces of cement, settled barrite and creeping formation
- Casing located in high temperature section of the well
- Initial attempts to cut the casing with conventional equipment by the other supplier had left the casing with several unsuccessful cuts

## THE SOLUTION

Due to its ability to apply high pullforce and make multiple cuts all in a single trip the TITAN System was deployed. With the ability to switch between cutting & jacking modes downhole as required it virtually guarantees casing on deck. The system has also been developed and tested to deal with high temperature well scenario's.

Positioning the DownHole Power Tool (DHPT) downhole directly above the fish allows safe application of high pullforce of upto 650 ton, without loading the workstring from surface.

## THE RESULT

**Run 1** - The TITAN System jacked 243m of 9 7/8" casing free from cased hole with 517 ton (1.14M lbs) pullforce, 3097m – 3340m.  
► Found the bottom cut to be incomplete by other supplier and was sheared apart by jacking force

**Run 2** - TITAN jacked 183m casing from open hole with 581 ton (1.28M lbs) pullforce, using 151 strokes with the DHPT and moved the casing 108m before it was free and could be recovered by rig power, 3340m – 3523m.

- Not possible to jack free casing to bottom cut at 3525m with 600 ton (1.32M lbs) pullforce, suspected incomplete cut by other supplier
- New cut was made at 3523m, casing was then jacked free and recovered to surface - all in a single trip

## THE TITAN® SYSTEM



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