

CUT, PUNCH & CIRCULATE CASING IN A SINGLE TRIP

Purpose designed system to meet clients operational requirements

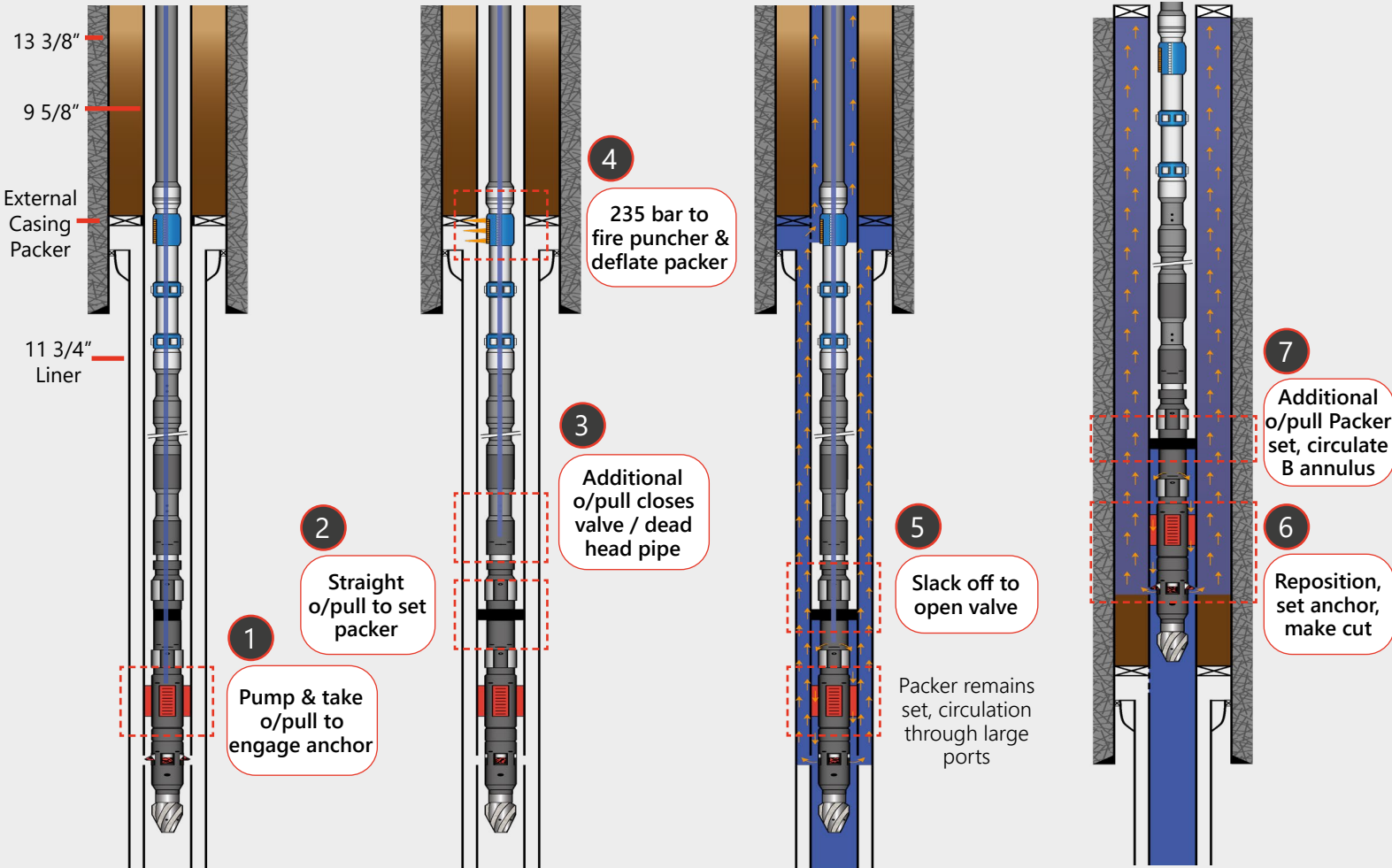


Run in hole & set TRIDENT Anchor

Take o/pull, close ALO HD & punch to deflate packer

Reduce OP - open ALO HD & circulate gas out cut & through perforations

Reposition BHA, cut above ECP, set packer & circulate settled solids



13 3/8"
9 5/8"
External Casing Packer
11 3/4"
Liner

1 Pump & take o/pull to engage anchor

2 Straight o/pull to set packer

3 Additional o/pull closes valve / dead head pipe

4 235 bar to fire puncher & deflate packer

5 Slack off to open valve
Packer remains set, circulation through large ports

7 Additional o/pull Packer set, circulate B annulus

6 Reposition, set anchor, make cut

Anchor tensile rating 1 million lbs

Packer rated to 3,000 psi

TFA through packer ports 2 in sq

Simple set down weight releases anchor & packer



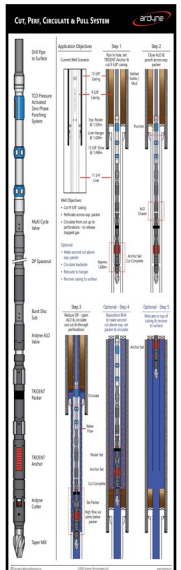
Ardyne Offshore Team

Working with TCO to create a purpose built system to address a clients specific requirements.

The Ardyne / TCO equipment performed as designed in order to provide a simple solution for a complex situation in the Norwegian North Sea.

And enabled the client to proceed as planned with their P&A operations.

Learn more about the TRIDENT System with Perforation, view our BHA Operational Poster



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