

RISERLESS OPERATIONS - INNER STRING RECOVERY

TRIDENT® - Reducing rig operational time and fluid contamination



Well Scenario
Prior to TRIDENT
Operations

Run 1 - 9 5/8" Cut, Circulate & Recover

"Dry Cut" 9 5/8" Casing
Cutting Time 1 min

Set 9 5/8" Packer & Circulate B Annulus
Recover 9 5/8" Casing

TRIDENT System - 140+ Runs Globally

Ardyne were approached to provide a solution for Inner String Casing Recovery in the final stages of a major Platform P&A Campaign

Run 2 - 13 3/8" x 20" Dual Cut, Circulate & Recover

"Dry Cut" 13 3/8" Casing
Cutting Time 15mins

Set 13 3/8" Packer & Circulate C Annulus

"Dry Cut" 20" Casing
Cutting Time 45 mins

Set 13 3/8" Packer & Circulate D Annulus

A B C D

30"

20"

13 3/8"

9 5/8"

Oil Based Mud

Contaminated well Fluids

Cut @ 755ft

The Challenge

- BHA to be optimised for Hydraulic Workover Unit
- Minimise fluid contamination in Annuli
- Minimise trips downhole
- Reduce operational time

The Solution

- Single piece BHA
- Internals updated to allow "Dry Cutting" (No Flow)
- Ability to dual cut 13 3/8" & 20" Casing
- Hydraulic Anchor maximising stabilisation
- Tension set packer allowing efficient annulus circulation
- Displacement via ports below set Packer

The Result

3 Trips Saved

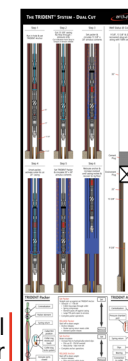
No riser required

Reduced Slops & Waste Disposal

Controlled Annulus Circulation

Selective Annulus Circulation Between Cuts

View - TRIDENT Dual Cut Operational Poster



Cut @ 565ft

Used 13 3/8" x 20" Knives

