



RISER & DRILLING SYSTEMS

# Perforating & Cementing Tool

## Introduction

Oil States has developed a Cementing and Perforating Tool (PACT) for rigless subsea well abandonment operations. The PACT is used to place intermediate and environmental cement barriers to complete the final abandonment of subsea wells.

## Features

- Rated to 5000 psi
- Incorporates products from across Oil States' Divisions into a single equipment package
- Can be run from a Marine Support Vessel, Semi-Submersible or Jack-up Lift Barge
- Single tool deployment for perforating, circulating, cementing and pressure testing
- Utilises Geodynamics market leading technology to provide large perforations to facilitate better circulation of annular fluids to surface and placement of cement barriers
- Subsea disconnect safety feature for use during any unexpected vessel movement
- Incorporates hydraulic release sub for discarding the lower perforating guns after activation
- Diverless operation

## Operation

The PACT is deployed subsea, run in hole and set down on the well casing hanger. The tool perforates and opens communication between the surface and well annulus A & B in turn to circulate old drilling fluid and debris from the annuli. Once the annuli is cleaned, the cement plug is can be set and pressure tested to create the required environmental barrier. When the barriers have been successfully placed, Oil States' combined cutting and Wellhead Assembly Lift Tool (WALT) can be deployed to sever the well casings and retrieve the wellhead back to surface.

## Complementary Services & Tooling

Abrasive Water Jet Internal Cutting Tool (AWJ-ICT)

Wellhead Assembly Lift Tool (WALT)

High Pressure Drilling Riser System (HPDR)



*Perforating and Cementing Tool Assembly*







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# Perforating & Cementing Tool



*Perforating Guns*

*Overshot/Disconnect Sleeve Assembly*

*Isolation Packers*

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