

# Enhancing Efficiency in P&A: The Impact of Interwell's Integrated IPD/MSWP Single Run Solution

Date: March-June 2024  
Region: Australia



## Key Capabilities

- *Save Rig time by achieving multiple objectives in a single run*
- *Fully compatible with Wireline Tractors for high deviated wells*
- *Barrier tested according to ISO 14310:2008/V0 and ISO 14310:2008/V6*
- *Drilling tool capable of drilling multiple holes in a single run, in multiple casing sizes*
- *Multidiscipline installation Engineers to reduce on-rig POB and HSE exposure*

## Challenge

A major operator in Western Australia was executing a Plug and Abandonment campaign that required the installation of suspension barriers in the well. The operation involved displacing fluid in the A annulus, both above and below the production packer. The challenge was compounded by the presence of Gas Lift Valves in some of the wells with unknown conditions that needed testing. To streamline the process, the customer sought an optimised solution that combined Interwell technologies to reduce intervention time.

## Solution

Interwell prepared a solution by integrating the Intelligent Precision Drilling Tool (IPD) with the Multi Set Wireline Plug (MSWP) to enable a single run operation. This innovative combination of technologies allowed for:

- Testing the GLVs when necessary by setting and unsetting the MSWP.
- Drilling multiple holes with the IPD above and below the production packer (Holes group A and B, respectively).
- Setting the MSWP above Holes group A to bullhead annulus contents above the production packer, and then unsetting the MSWP.
- Placing the MSWP below Holes group B to bullhead annulus contents below the production packer, unsetting the MSWP.
- Fully setting the MSWP when necessary to serve as a cement retainer and continuing the intervention to suspend the well for P&A.

To ensure optimal performance, additional wireline accessories were added to the toolstring, and System Integration Tests were conducted with all stakeholders. Compatibility with multiple wireline Tractor providers was also verified.

The deployment of the IPD/MSWP combination was successful, saving multiple intervention runs, significantly reducing rig operation time, and achieving all planned objectives for the tools in a single intervention run.

In complex offshore operations, minimising personnel on board and reducing health, safety, and environmental exposure are critical. Interwell's tool specialists delivered multiple services in one go, reducing the need for multiple service providers.

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## Value Created

The IPD/MSWP solution was rapidly prepared, qualified, and mobilized, aligning with the P&A schedule. Interwell's tool specialists and field service engineers, supported by integrated operations, are highly regarded for their service quality. With onshore support in Australia and Norway ensuring 24-hour coverage, Interwell enhances intervention run efficiency, decreases POB, and reduces HSE exposure.

As the P&A campaign progresses with eight more planned operations, Interwell's successful IPD/MSWP deployment, saving multiple intervention runs (equivalent to 12-18 hours of rig time per well), positions the company to continue providing high-end technologies and innovative solutions to the market.

