

Innovation in Decommissioning: Challenge, Develop, Influence

Each operator must experience a steep learning curve in order to minimise the time and cost associated with decommissioning, whilst ensuring all activity falls within regulator guidelines. The challenges associated with this learning curve are mitigated by the well management and decommissioning expertise of EXCEED.

We bring our detailed knowledge and understanding of the regulations and requirements for each well abandonment campaign and provide the specialist services which will control costs and time spent.

Bringing Experience to the Table

We apply our experience in well management and decommissioning, making use of the vast data history available in order to assess the optimum method of compliant abandonment, whilst ensuring the industry's most experienced personnel and relevant equipment are focused upon the campaign.

During the last five years, EXCEED has completed approximately 90% of the operational scope achievable with a hydraulic workover unit.

Building Relationships: the X Factor.

The decommissioning sector remains challenging, and it is EXCEED's industry status, influence and track record which sets us apart from others in this field and allows us to provide market leading results.

We pride ourselves on leading the energy transformation, and we work hard to ensure our partners share our mindset to improve through innovation.

We work closely and collaboratively with service companies, to develop the tools and methods which will gain the greatest efficiencies. It's a win-win: the project gains optimum results, they increase their product portfolio.

The trust our **operator** clients have in our ability to challenge whilst remaining compliant also plays a critical role, as they agree to become early adopters of our innovative approaches to decommissioning.

These can range from the heavy modification of equipment, to identifying novel ways in which to reuse existing equipment, in order to abandon wells in the safest, most efficient manner.



Enhancing
SAFETY



Preserving
ENVIRONMENT



Assuring
INTEGRITY



Assuring
INTEGRITY



Improving
EFFICIENCY



Reducing
COSTS

Engineering Our Way to Solutions

Hydraulic Workover Unit



DUNLIN:

- Increased the safe working load of the main winch from 5 – 7MT.
- Installed a slip type tension ring on hydraulic cylinders below the sub-base to act as a back-up jacking plate and additional method of securing large diameter pipe.
- Improved method of removing grouted sleeves from the outer wall of the 30" conductor pipe.



MONTROSE:

- Installed a pipe racker to store 200 doubles of drill pipe, resulting in less reliance on platform cranes and less pressure on deck space to lay out drill pipe every time the HWU trips pipe out of the well.
- Modular deck to skid with the HWU. Much of the equipment moves with the HWU when skidding so less rigging down and rigging up between wells.

Influencing Change: section milling on Dunlin

EXCEED worked extensively to identify the most efficient way to abandon Dunlin's 45 wells, which each required three cement plugs to safely isolate.

We evaluated a number of methods to assess the condition of cement in place behind the casing and trialled several before settling on section milling as the preferred option – albeit a less popular method across the offshore industry.

Working with one contractor - as focused on continuous improvement as EXCEED - together we reduced the number of runs required to mill the necessary window of 200ft, from three to one.

We also applied computer- and risk-based techniques, together with collaboration with reservoir engineers, geophysicists and industry peers, to develop the evidence and provide the due diligence to confirm that the required window could be reduced from 200ft to 100ft.

Approved via rigorous assessment from well inspectors and the HSE, this not only significantly decreased the length and cost of the campaign but influenced the development of approved decommissioning techniques, as evidenced by the latest decommissioning guidelines as issued by OEUk.



As Well Operator, EXCEED produces a Well Integrity Practices document specific to each asset, and utilises **Collabwells:WIMS** - a step-change Well Integrity Management System which is fully supported by the required processes and procedures embedded within our management system and offers a single source of well and field status.



iVISION

iVISION enables smarter collaboration, managing project information efficiently and effectively from planning to execution.

- **Real time learning** and **communication** between wellsite and the engineering team
- **best practice** instantly shared
- accelerated **learning**
- enhanced **safety**
- immediate **cost savings**



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