Innovative rig solution for well abandonment



Decommissioning Liability

Oil and gas industry fights Morrison government levy of up to \$1bn to decommission rig

Federal budget revealed plans to levy industry to decommission Northern Endeavour in the Timor Sea and remediate associated oilfields

• Explore all of our 2021 Australia federal budget coverage here



File photo of a North West Shelf gas platform. The offshore oil and gas industry says taxp could foot the bill to remediate a rig formerly operated by Woodside using unspent tax cred Over the first nine years, it produced \$US3 billion of the black stuff. Photograph: Reuters

ENERGY

Put up for clean up, Govt tells oil drillers

New rules will force oil and gas exploration companies to release detailed financial information to prove the taxpayer won't be left holding the baby when it comes to expensive decommissioning of old oil rigs

The Tui oil field, 50km off the Taranaki coast, was once the biggest and most lucrative in the country. In 2008, at the height of production, its five deep-sea wells and floating production and storage vessel, delivered almost 13.5 million barrels of oil.

And then everything stopped. A little more than a decade after production started, it was finished, the company that then owned it was gone, and the New Zealand taxpayer was left with a \$350 million bill for shutting down and cleaning up the drill site.

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REINFORCING RESPONSIBILITIES

Offshore decommissioning obligations and compliance receive greater scrutiny





Decommissioning Risks



Well Abandonment



Well Intervention Rig vs Drilling Rig - Onshore

— Well Intervention ————











Well Intervention Rig vs Drilling Rig - Offshore

Well Intervention







Well Intervention Rig – Helix Q7000



DP3 – Drives onto location – no Mooring



Hands Free Operations





Conveyor Belt Catwalk Pipe handling arms







Minimize Crane Movements





150mt Pallets Skidding system to well centre







Heave Compensated Coil & Wireline



Intervention Tension Frame Heave Compensated Rig Floor Coil Tubing Injector Head & Wireline Lubricator installed





Changing from Coil & Wireline – Hands Free



Intervention Tension Frame Coil Tubing Injector Head & Wireline Lubricator installed



Changing from Coil & Wireline – Hands Free



Hands-free "tailing-in" of tools





Walk to Work System



Walk to work bridge allows access to heave compensated Intervention Tension Frame







Well Control





Light Weight BOP Full well control for coil and wire Control of the subsea Christmas tree from the drillers cabin via an inbuilt IWOCS







Twin ROV's





Two work class ROV's built in to the hull Cursor frames for launching in harsh conditions Can perform offline work on adjacent wells Support offline subsea crane work







160t Active Heave Compensated Crane



Recovery of subsea equipment off critical path Offline wellhead abandonment Manifold, PLEM and Gravity Base recovery









Compare this to a Drilling Rig



Coil Tubing Lift Frame is cumbersome 3rd Party IWOCS – 4 pieces of kit + sheaves & control external from the driller Mooring & de-mooring









In Summary

Q7000 is a Step Change in offshore Well Intervention

- Safety
 - Hands free and walk to work by design
 - No lifts across the deck
- Efficiency
 - Quick change from coil to wire (2hrs vs ~14 hrs on a rig)
 - Subsea tree control built in & operable from drillers console
- Adaptability
 - DP3 drive-on, drive-off capability, 10knots transit
 - 80-3000m water depth range
 - Offline capability with 160mt heave compensated crane
 - Twin work class Schilling ROV's (up to 3000m water depth)





QUESTIONS ?

GET IN TOUCH

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