

# Rigless Abandonment success story



Oil & Gas Authority

## Significant cost reduction through risk-based engineering and innovation

- Initial plans to plug and abandon the wells on Viking Bravo was to use a jack-up drilling rig. However, as the main hub for several Viking satellites, the platform was surrounded on all sides by multiple pipelines and other subsea infrastructure, which would be extremely costly to remove to locate the rig.
- By challenging the guidelines and adopting a risk-based approach to the abandonment design, a completely rigless solution was engineered and delivered.
- A coiled tubing unit was used to set and verify permanent downhole abandonment barriers.
- Through supply chain engagement, a bespoke casing jacking unit was designed and built to allow tubing, casing and conductor retrieval from the platform deck.
- All scopes were achieved successfully realising a 68% cost reduction against a rig-based approach.

### Achievement based on:

- Risk-based solution to deliver lowest cost decommissioning.
- Efficient offshore execution.
- Supply chain engagement to deliver a bespoke solution.

## OGA Decom Team comments

This success supports the message that significant efficiencies can be made through:

- Critical review of work scope and requirements
- Challenging the guidelines
- Working closely with the supply chain to deliver solutions

## Key facts

- Six abandonment barriers were set using a through-tubing method combining static and agitated jobs.
- Casings and conductors successfully cut and recovered from below mudline on six wells.
- Coiled tubing spread rate 65% lower than jack-up drilling rig; casing jacking unit spread rate 90% lower.
- Operation completed in 114 days.

