

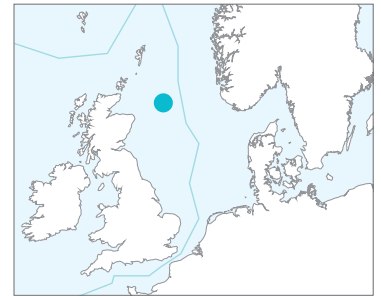


Nelson Platform Rig Package Option Study

EXCEED was contracted by Shell to perform a rig package option study, comparing the available rig options for abandonment of the Nelson Platform wells, whilst supporting Shell in selecting the optimum rig asset for the decommissioning campaign.

The well stock and abandonment strategy were reviewed with Shell's Well Engineering and Intervention teams to establish the complexity of the abandonments required. Operational timings were collated for each category of well, with additional risk allowances applied, to build a total rig campaign duration.

An operational factor of between 70% and 100% was applied to reflect the differing operating rates of each unit, and schedules were created for every option from contract award through to the end of the P&A campaign, allowing a fair comparison that captured the upfront works unique to each option, such as platform reactivation or the manufacture of new-build assets.



LOCATION

Central North Sea, UKCS



SCOPE

Rig Package
Option Study



OPTIONS ASSESSED

9 Rig Options



WELL STOCK

33 Wells to Abandon



ENVIRONMENT

Lowest CO₂ Footprint
Option Selected



The solution:

Nine rig options were presented, each with its pros and cons, total cost and duration, before being ranked through a scoring matrix weighing cost, SIMOPS and flexibility, deliverability, unit capability and market availability.

The study was led by a team of EXCEED Senior Well and Well Intervention Engineers and supported by an offshore survey of the platform, wellheads and legacy drilling package. The review identified the WellGear HWU as the strongest option on timelines, flexibility and commercials.

Shell subsequently used the findings as the business justification for removing the legacy platform drilling package ahead of installing a WellGear HWU for the well decommissioning operations.

Option	P&A Unit Operational Factor	NPT/WOW	Most likely COST from project commencement to end of P&A campaign	Most likely DURATION from project commencement to end of P&A campaign
Platform Reactivation	90%	30%	£227.2MM	1796
WellGear Well Abandonment Rig	80%	23%	£222.4MM	1502
WellGear 460k HWU	70%	26%	£223.2MM	1387
Archer Modular 400sT	70%	23%	£305.9MM	1647
Archer Modular 250sT	70%	23%	£279.7MM	1855
Jack-Up Skid Off	100%	23%	£221.7MM	1193
Jack-Up Conventional (East and West Access)	100%	23%	£238.9MM	1010
Hybrid Jack-Up and WellGear WAR	Combination of units		£252.6MM	1085
Hybrid WellGear HWU and WAR	Combination of units		£224.7MM	1282

Driving Decom Change Through Experience

Our philosophy is one of integration: engineering, subsurface, data specialists, and operations work together from day one, sharing information, challenging assumptions, and solving problems in real time.

The result is a decom service that is both innovative and grounded in operational reality.

Safefficiency

Every day, we empower frontline leaders to achieve consistent, exceptional results, no matter how complex or challenging their environment.

We equip our clients with the tools, mindset, and support they need to deliver outstanding results in even the toughest conditions.



50
Projects



20:1
Return on investment



\$1B
Saved for our clients



Enhancing
SAFETY



Preserving
ENVIRONMENT



Assuring
INTEGRITY



Improving
EFFICIENCY



Reducing
COSTS



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