



FairfieldEnergy

Dunlin Platform well P&A campaign

At the beginning of 2016, EXCEED's well abandonment capability was recognised with the award of the Well Engineering Services Support Contract by Fairfield Energy for the Dunlin (45 platform) wells abandonment campaign.

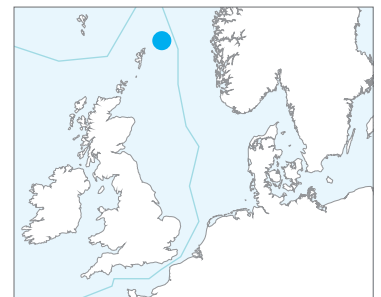
Within a very compressed timeline, the EXCEED team supported Fairfield in the detailed engineering, planning and execution of the well abandonments. Our well engineering personnel integrated themselves within the Fairfield drilling department and constituted approximately half of the onshore and offshore well engineering team which delivered an industry-recognised top performing project of its size and level of complexity, which **won the OEUK "Excellence in Decommissioning" award in 2020.**

Project Overview

Dunlin Field has been producing oil since 1978, with assets consisting of a manned topsides facility above the main Dunlin reservoir and two subsea tie-backs, the Merlin and Osprey. In 2015, after almost 40 years of production, Fairfield announced ToP (Termination of Production) with subsequent CoP (Cease of Production) approved in January 2016.

EXCEED commenced Phase 0 in January '16 with the slickline mast, followed by Phase 1 and 2 operations with the platform drilling package. Operations continued until Q3 2016 when Phase 0 operations were completed.

In Q2 2018 Phase 3 operations commenced with offline conductor recovery with the WellGear HWU. The very poor condition of conductors and the numerous clamps and grouted sleeves fitted to many of them, made this a particularly challenging element of the workscope.



LOCATION

UKCS Northern North Sea



AWARDS

OEUK 'Excellence in Decommissioning' 2020

DURATION

1800 Days



HSE

Zero LTIs



ENVIRONMENT

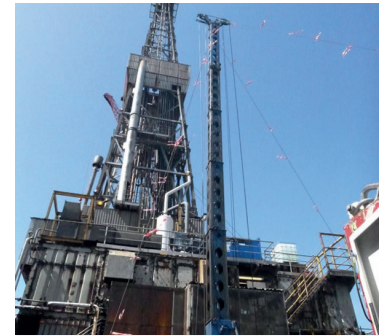
Zero spills



Leading UKCS Decommissioning

As one of the larger well abandonment projects carried out in the UKCS, much of the “know how”, learning, best practices, development and application of innovative tooling and reverse engineering were subsequently transferable to other abandonment projects in the UKCS, including;

- Use of rigless equipment and offline operations where possible such as conductor pulling
- Application of new technology and cement plug placement methods to the industry
 - HydraHemera (or similar) jetting tool for Perforate, Wash and Cement (PWC) jobs on casing strings, using Top Drive for cementing operations to enable jetting of cement
 - Wireline logging analysis techniques for analysing perforated cemented casing strings following a PWC job
 - Sacrificial string for conductor pulling
- Working with vendors to optimise operation of equipment (cross training) to minimise POB issues, flights and to reduce HSE exposure and resource duplication & contract leakage over the campaign
- Work up solutions for offline operations (i.e. rigless programmes to assess well condition/conduct prep work prior to rig arrival etc.)
- Working with vendors to improve tool performance (such as perforation charges for the perf/wash/cement tools, section mill knife technology, BHA configurations, etc.)
- Reviewing emerging technology and challenging O&GUK Guidelines (reduction in barrier requirements) and presenting potential benefits and risks to senior company stakeholders



Results

Even with its numerous challenges (very old wells and drilling package, challenging abandonment barrier requirements and disruption due to the COVID-19 pandemic), the well decommissioning programme was completed successfully and collaboratively with the other platform preparation teams/activities enabling the removal of the platform in 2022 as planned.



Enhancing
SAFETY



Preserving
ENVIRONMENT



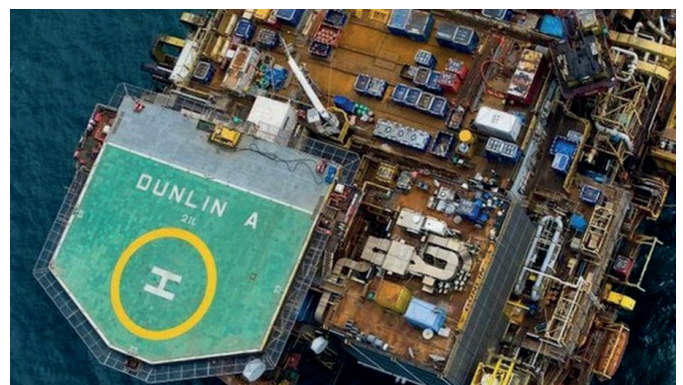
Assuring
INTEGRITY



Improving
EFFICIENCY



Reducing
COSTS



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