Unlocking the Undrillable

From Technical Standstill to Four Wells Delivered Ahead of Schedule in the North Sea

Objectives

- Drill and complete development wells in a highly technically challenging operating environment that had previously prevented field development.
- Manage extreme pressure, temperature, and narrow operating margins while protecting well integrity and barriers, reducing execution risk, and delivering performance and predictable timelines.
- Develop an execution model that minimizes operational interfaces, maintains control across drilling and completion phases, and reliably aligns operator and Weatherford objectives to deliver wells within tight safety and performance limits.

Our Approach

- Delivered an integrated drilling and completion solution under an Integrated Services Project (ISP) model, aligning drilling services (DS), managed pressure drilling (MPD), and tubular running services (TRS) within a single, governed engineering and execution framework. This integrated approach was designed to reduce interface risk, ensure consistent decision-making, and maintain control across all phases of well delivery.
- Applied MPD to actively manage bottomhole pressure and equivalent circulating density (ECD) within the narrow operating window, providing assurance against well control and formation risks in environments with ECDs up to 19.03 ppg and temperatures to 347 degF (175 degC).
- Performance driven drilling practices were deployed by DS to manage severe vibration and torsional oscillation, allowing drilling and MPD parameters to be safely optimized without compromising well integrity.
- Fully integrated TRS and MPD operations enable casing and tubing installation at optimized running speeds while maintaining connection quality and barrier compliance. Continuous learning across the campaign—including onshore bottomhole assembly (BHA) pre-makes and MPD workflow optimization and integrated TRS rig equipment—reduced execution variability and progressively lowered risk and rig exposure from well to well.

Value to Customer

- Enabled safe and successful drilling and completion of four development wells ahead of AFE, unlocking production from a field previously considered undeliverable due to technical and execution risk.
- Delivered step change drilling performance while maintaining assurance, with ROP improvements versus offset wells of +151% in the 17 1/2-in section, +105% in the 12 1/4-in section, and +29% in the 8 1/2-in section.



Weatherford Integrated Services streamlines well construction, production, and abandonment projects by providing tailored solutions, integrated teams, comprehensive technologies, and customer-focused project management that deliver efficient, results-driven execution from start to finish.

LOCATION
North Sea (United Kingdom)

WELL TYPE
Development, producer

RIG TYPE
Jackup

DEPTH
- Well 1
  18,342 ft MD [5,590 m]
  18,155 ft TVD [5,533 m]
- Well 2
  19,642 ft MD [5,988 m]
  18,552 ft TVD [5,654 m]
- Well 3
  21,055 ft MD [6,417 m]
  19,027 ft TVD [5,799 m]
- Well 4
  19,330 ft MD [5,892 m]
  18,047 ft TVD [5,501 m]

PRODUCTS/SERVICES
- Victus™ intelligent MPD
- Magnus® RSS
- Vero® automated connected integrity
- Integrated Services and Projects
- Drilling services
- Measurement while drilling (MWD) / logging while drilling (LWD)
- Tubular running services

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- Reduced subsurface and operational risk through integrated pressure management, achieving precise control in extremely narrow operating windows and high temperature, high-ECD environments achieving precise control and full LWD data deliverables.
- Reduced execution exposure and cost through integrated workflows, including approximately $226,000 GBP saved per well via onshore BHA pre-makes and $557,000 USD by delivering the fourth well 33 hours ahead of plan.
- Eliminated openhole wireline risk by acquiring formation pressure data while drilling in a high-temperature environment under MPD conditions while managing the risk of differential stuck pipe, saving approximately 2.5 days per well, equivalent to $963,000 USD per well.
- Maintained high execution reliability across disciplines, with operational efficiencies of 99.72% for MPD, 97.83% for tubular running services, and 95.65% for drilling services.
- Established predictable, repeatable delivery through reduced interfaces and standardized execution, setting a best-in-basin drilling performance with the Magnus RSS, rig benchmarks for casing running speed, and demonstrating sustained MPD system reliability over the full campaign.

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