

Expro Excellence

Casing repair for Ithaca on the Captain platform offshore UK to restore drilling and optimize production

Coretrax | CORE



Objectives and background

- The customer was experiencing corrosion of the 13 3/8" casing which had resulted in a leak, creating a well integrity issue. As a result, in order to progress with drilling operations, the compromised 13 3/8" casing would have had to be cut and recovered, a new 17 1/2" hole section drilled and a new 13 3/8" casing run and cemented, which would introduce additional operational challenges
- To move forward, Ithaca required a permanent, reliable remediation solution to fully restore casing integrity before side tracking could proceed. The challenge lay in repairing an extended corroded interval in a complex offshore environment, while minimizing rig time, operational risk, and overall cost

Expro Excellence

- Expro was selected based on a strong track record of delivering expandable casing solutions for Ithaca on Captain platform, alongside proven expertise in well integrity and offshore operations
- After analysing all available well data, Expro designed a tailored solution using the ReLine™ HYD expandable casing system to fully clad the damaged section. The scope included installing a 500 ft expandable casing patch from sea level, providing a long-term integrity solution
- Key elements of Expro's delivery included:
 - Systematically pressure tested and validated integrity of the 13 3/8" casing sections that would remain uncovered by the casing patch with the AEON RTP and an abandonment valve after cutting and retrieval of the 9 5/8" casing
 - Deployment of the ReLine™ HYD expandable casing patch using Expro TRS
 - Completion of the installation in a single run, significantly reducing rig time and operational complexity
 - Successful pressure testing confirming full integrity restoration
 - Close collaboration across Expro product lines to ensure seamless execution and minimize risk
 - This integrated, efficient approach differentiated Expro from competitors and ensured a fast, safe, and cost effective solution

Value to the client

- The expandable casing patch eliminated the leak and fully restored wellbore integrity, mitigating environmental risk and enabling operations to resume. With integrity re-established, Ithaca was able to:
 - Set a cement plug below the patched interval
 - Proceed with sidetrack drilling with confidence
 - Avoid extended downtime and escalating costs
 - Preserve the future value of the slot and well
- Without Expro's solution, Ithaca faced prolonged operational delays and the potential loss of the sidetrack opportunity
- The project highlights Expro's ability to deliver high value, integrated well integrity solutions in challenging offshore environments
- Ithaca expressed strong satisfaction with both the execution and outcome

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Our objective was to isolate the suspected leak zone and corroded section of 13-3/8" casing to restore casing integrity, provide a tested well barrier envelope prior to drilling the next section into the reservoir, as well as ensure well integrity for the remaining life of the well. A 500 ft patch was selected as the most efficient method of achieving our objectives. Thorough collaborative planning with the Expro Engineering team enabled the installation of the casing patch to be successfully completed in a single run without any complications and we were able to drill into the reservoir as planned with a fully tested surface casing.”

David Mallum
Senior Drilling Engineer
Captain

Enhanced production



Partnership



Well integrity

