Expro Excellence

Expro's modular well test package cuts costs with faster setup and flexibility

Well Flow Management | Well Testing

Objectives and background

- A North Sea operator engaged Expro to address challenges on a delayed field development project with aggressive timelines for achieving the first oil

The operator faced the following critical issues:

- Project delays required accelerated cleanup and production testing to extend the life of subsea wells while avoiding costly interventions
- The existing rig's deck loading exceeded design limits, yet modifications to the rig were not feasible without jeopardizing the project's schedule

Expro Excellence

- Expro developed an innovative modular clean-up package to meet the client's requirements without rig modifications

Rig Survey and Preliminary Design:
- Conducted a comprehensive survey of the rig and created a detailed design with loading calculations to ensure adequate weight distribution of the modular package across the rig deck

Modular Engineering Approach:
- Constructed a false deck in modular sections to reduce complexity and expedite installation. Ensured integration of flow lines, relief lines, power, and air systems before the arrival of the main clean-up equipment

Streamlined Installation Process:
- Pre-installed sea fasteners with a three-person crew as an offline activity, minimizing on-site disruption. Delivered and installed the false deck in four sections, leveraging pre-installed fasteners to enable rapid setup. Reduced crane operations and manual handling, ensuring a safer and more efficient installation

Collaborative Execution:
- Worked closely with the client throughout, including system integration tests and final approvals in Stavanger

Value to the client

- Project delays were addressed enabling an accelerated well clean-up without any rig modifications
- Optimal safety and efficiency were achieved through collaborative design and streamlined installation
- Aggressive timelines for achieving first oil were met

Innovative solution
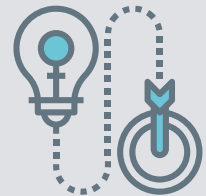
Operational efficiency

Decreased costs