

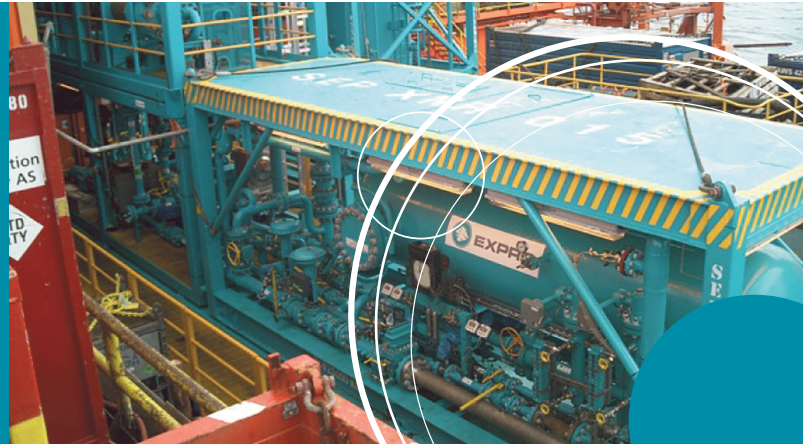
**EXPRO**

WELL FLOW MANAGEMENT™

/ Expro Excellence

Well Testing

Expro modular package reduces installation time by 75%, gaining 68 man days



Objectives/background

- Expro has been on board the Transocean Searcher with traditional temporary installed well test equipment since the late 1990s
- Norwegian regulations require all equipment to be permanently fixed to the deck

Expro Excellence

- Expro invented a fastening system, avoiding the need for permanently welded equipment to the deck; this allowed equipment to be removed between campaigns, when transitioning between summer and winter seasons
- Expro designed an industry-leading, world first, modular package introducing the following key features:
 - A repackaged heat exchanger that is smaller in size but with the same efficiency, stacked to reduce the overall footprint
 - Sea fastening with ISO twist locks therefore can also fasten other equipment on top
 - A false deck housing all the piping to mitigate trip hazards
 - Retractable gangways and escape routes for ease of installation as well as flexible options (connections can be any side of the frame to adapt to rig layout)
 - Pre-fabricated, fire resistant, composite grating
 - Use of self-supporting base frames to spread deck loads
 - Instrumentation permanently installed into modules/skids (e.g. lighting, services and utilities)
 - Reduced exposure to hydrocarbons using sampling cabinets

- Further enhancements were introduced integrating ancillary equipment into package means less lifts and quicker installation; onshore SIT was complete in one day, proving the design, which led to shortening the rig up time offshore
- Rig up reduced from 85 man days for traditional packages to approximately 17 man days – gaining 68 man days, a 75% reduction

Value to client

- A more efficient modular package with a smaller footprint:
 - Cost savings due to a quicker installation
 - Improved flexibility in package shipments
- Equipment could be left on the rig as sea fastening with ISO twist locks allowed other equipment to be secured
- Improved equipment access due to skid and walkway layout
- Safety:
 - Reduction in crane operations (as well as freeing up the crane for other activities)
 - Man hour reduction during installation
 - Lighter equipment and less manual handling
 - Less exposure to hydrocarbons
- Less interference with drilling activities
- Reduced personnel on board due to a smaller crew required: reduced periods of time on the rig made travel and accommodation provision easier to facilitate

Contact

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