

Expro Excellence

Expro delivers fast track produced water treatment in 14 weeks

Production



Customer challenges

- Expro was approached to fast track a produced water treatment package by an operator in South East Asia. The treated produced water would be injected into the reservoir
- At the time, the operator's platform was experiencing a production bottleneck due to an increasing water cut. This resulted in an inability to treat the produced water to the required specification for injection to the reservoir, putting pressure on the operator on how to manage the reservoir pressure and where to discharge the produced water
- Expro was selected to provide an add-on produced water treatment package for installation on the platform on the basis of the technical solution and delivery offered, in addition to the ability to perform bulk water separation trials to assist the package design

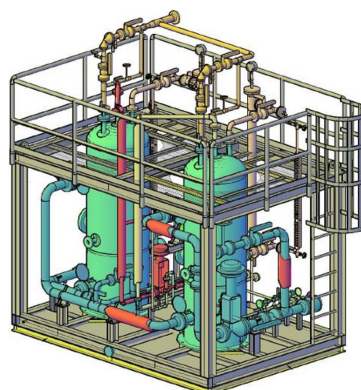
Expro Excellence

- Expro delivered a two stage compact flotation unit package designed to process 15,000 BPD of produced water from the operator's existing facilities and reduce the oil in water content below 40 mg/l
- By supplying a two-stage compact flotation unit, Expro was able to provide a single compact package capable of treating oily water directly from the upstream separator without requiring separate primary and secondary treatment equipment. The unit is able to treat water with up to 5,000 mg/l oil content in the event of process upset
- The retrofit of the package onto the existing platform was a challenge due to the available footprint and crane lifting capacity. The compact vertical design fit within the footprint constraints and the package was designed in a way for it to be disassembled and reassembled offshore with ease
- The package was delivered in 14 weeks, allowing the operator to install and increase production, knowing that the associated produced water injected into the reservoir would be on-specification

- Without the Expro solution, the operator's produced water would continue to be off-specification with excessive oil content, thereby constraining production

Value to the client

- The produced water treatment package provided by Expro allowed the operator to successfully remove residual oil from the produced water for injection to the reservoir
- The operator's existing produced water system was successfully de-bottlenecked, enabling an increase in oil production
- Fast track delivery of the package in compliance with the customer's specifications, in addition to international standards
- Expro provided personnel for installation and commissioning support of the package
- The produced water treatment package was designed to minimise the retrofit impact on the existing platform's systems. As such the package requires no electrical power, has a simple control scheme and has no internal moving parts, minimising future maintenance
- The Expro solution allowed the operator a safe disposal option of the produced water into the injection wells with minimum impact on the environment



Increased productivity



Environment



Contact

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