

Diver Operated Sampling and Injection Solution Subsea Sampling



Client:

UK independent oil producer

Location:

North Sea

Equipment:

Subsea sampling system capturing fluid samples at temperature from subsea christmas trees

Scope

The full sampling process was completed within 24 hours. Subsea verification confirmed estimated sample volumes and allowed the client to sign off prior to equipment removal from subsea. Once the skid was returned to surface the sample cylinders were isolated, removed from the skid and sent to a laboratory for analysis.

Benefits

- Easy to use diver interface
- Variable sample and slops volume capacity
- Closed loop design for zero discharge to sea
- Isothermal and Isobaric sampling capabilities
- Ability to back flush / chemical injection to clean lines

Project Background

A UK independent oil producer commissioned Proserv to design, manufacture and supply a subsea sampling system capable of capturing reservoir fluid samples at temperature from subsea christmas trees to support their operations.

Solution

A project delivery team was established involving design engineers, project managers, planners, buyers and technicians, who all worked closely to deliver this project to exact design specification.

The diver operated system was designed to meet the following requirements:

- 2 x 2 litre slops cylinders
- 6 x 2 litre sample cylinders
- Compact design to interface with christmas tree
- Water depth of 100 meters and a pressure rating of 1,000 psi minimum
- Isothermal sampling - circulation of hot water within skid to reduce risk of wax and hydrate formation

The completed subsea sampling system was fabricated, assembled, tested and shipped from our sampling and injection solutions facility in Aberdeen within 11 days of official call off.

