

ROV Operated Subsea Sampling Unit Production Optimisation

Client:

Multi-national operator

Location:

West Africa

Equipment:

Subsea sampling system to take production samples to support subsea meter calibration at 2,500 metre depth

Improved subsea metering also supports maximising economic recovery, through the reduction of well downtime while physical samples allow for inlet chemistry of the pipeline to be better understood.

Benefits

- 12 litre slops containment
- 12 litre chemical back-flush
- Trace heating on sample cylinders
- Real time pressure and temperature indication
- Visual indication of sample volume, verifying sample taken

Project Background

Subsea metering on individual wells is only effective when the meters are accurately calibrated, so that production efficiency can subsequently be improved.

Proserv was approached by a multi-national operator to provide a system that could take production samples to support subsea meter calibration at water depths of 2,500 metres, in West Africa.

Solution

Given the different water salinities from the wells in question, coupled with a low water content, sufficient sample volume was required to ensure analysis could be carried out accurately.

Proserv provided an ROV operated, manifold mounted, system that allowed for the safe capture and containment of up to 24 litres of sample per run.

Scope

With the provision of subsea samples, the operator could calibrate the meters depending on well line-up, thus improving reservoir understanding and production management of the wells.



ROV operated system w/interfaces ISO 13628-8