

FoamSet automated foam cementing system successfully eliminated NPT in first Norway application, saved approximately \$300,000 USD

CHALLENGES

- Conductor slurry in a field where 80% of previous wells failed to bring cement to seabed
- Elimination of non-productive time (NPT) from remedial grout jobs
- Insufficient deck space for conventional foaming equipment

SOLUTION

- [FoamSet foam cementing system](#) was utilized to:
 - Ensure optimal cement coverage and improve zonal isolation
- [Automated foam cement system \(AFCS\) Lite](#) was selected for its ability to:
 - Minimize or eliminate dry blended beads and liquid nitrogen
 - Simplify the foam cementing process and logistics, ensuring fast rig up
 - Lower equipment footprint by reducing number of lifts needed as well as personnel on board (POB)

RESULTS

- Observed foam cement at seabed
- Eliminated liquid nitrogen boil-off preventing waste
- Limited maximum nitrogen pressure to 4,300 psi (300 bar) for safer operations
- Achieved 100% zonal isolation with no non-productive time (NPT) for remedial grout jobs, saving a day of rig time, and approximately \$300,000 USD
- Performed the job flawlessly with no health, safety, or environmental (HSE) incidents



FoamSet AFCS Lite N2 control valve skid