

Case study

Produced Water Caisson and Spool Rehabilitation

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Extend the life of Produced Water Caisson and Spool with a cost-effective solution.

Maximizing cost savings for customer

Client: Major North Sea Operator

Location: North Sea

Scope: DN660 caisson + 2 spools (3.5 m, 12" connections) for produced water

CHALLENGE

A caisson and attached spool system handling produced water was experiencing corrosion and required lining to maintain pressure integrity and flow. Operating conditions included high temperatures (up to 99°C) and chemically aggressive fluids, requiring a robust internal barrier.

SOLUTION

Pipeliner used a high-performance thermoset composite lining system rated for high-temperature service. Spools were prefabricated and lined onshore, while the caisson was rehabilitated offshore using field equipment and trained technicians. The system was verified through pressure testing and post-installation inspection.

RESULT

- High-temperature resistance up to 99°C
- No welding or mechanical replacement needed
- Restored pressure integrity of entire assembly
- Cost saving

WHY EXTENDING ASSET LIFESPAN MATTERS



Reduction of
Operational Downtime



Significant Reduction
in CAPEX Costs



Mitigation of
Environmental Impact



Enhancement of
Safety Standards



Improvement in
Hydraulic Efficiency