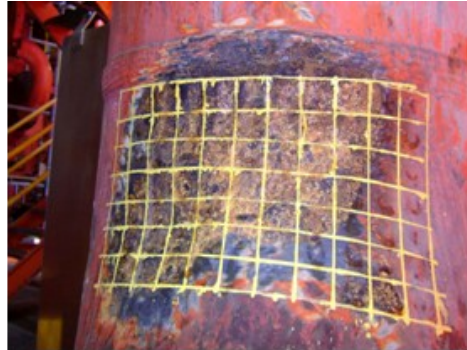


# SYNTHO-GLOSS®XT

## 1440 psi OFFSHORE PIPELINE REHABILITATION



### Problem

The design justification for the pipeline is a 96" (2.44 meter) composite repair on a 16" OD 1440 psi carbon steel schedule API-5L Grade B header.

### Conditions

96" (2.44 meter) of pipe was blasted to a NACE 2 rating (near white metal) with a 1 mil – 4 mil anchor pattern. Once the corrosion was removed and a solvent wipe was completed, NRI used a load transferring epoxy putty Syntho-Steel™ to fill in the pitting and corroded areas. The putty was applied to match the cylinder shape of the pipe creating a smooth transition for the two part Kevlar® epoxy and composite sleeve to be applied.

### Solution

A high compression strength two part Kevlar reinforced epoxy was applied over the total repair area. The two part epoxy stopped the corrosion and provided a load transfer median engineered to cycle and work with the 1440 psi (99.3 bar) pipeline.

### Result

Syntho-Glass®XT, a 54,000 psi (3720 bar) tensile strength fiberglass composite sleeve, was wrapped around the total repair providing structural integrity to the composite repair system. This composite repair system strengthens the damaged pipeline to meet the MOAP and provide corrosion protection to the carbon steel pipe over the length of the 96" repair application.



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XT CS 0811

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