

BELZONA COMPLIANT SUPERWRAP REPAIR ON RISER WELLHEAD CASING

ID: 7558



PROBLEM

Severe corrosion on 17 years old 18" production riser on a North sea oil producing platform had resulted in a critical through wall defect. The riser was containing drillfluid as the oil production from the well been stopped recently. The drillfluid was leaking into the surrounding casing through the defect creating possible safety and environmental issues. The design parameters were: 20 years life expectancy, design temperature 55 deg Celcius and design pressure 1 MPa

APPLICATION SITUATION

17 years old 18" offshore riser.

APPLICATION METHOD

The application was carried out in accordance with Belzona System Leaflet VPF-11. Following gritblasting, the defect area was patched with a layer of Belzona 1111. Immediately after this, the Belzona SuperWrap II system was installed in accordance with the calculated dimensions. After curing the application for 48 hours, a custom-made clamp was assembled to set the casing back to its former location and purpose, covering the SuperWrapII repair completely.

BELZONA FACTS

The full preparation and SuperWrap application was executed without the use of hot work and finished on schedule in 3 days.

INDUSTRY

Oil & Gas

LOCATION

Oil Field Operator, North Sea, Norway

APPLICATION DATE

July 2016

PRODUCTS

Belzona 1111 (SuperMetal)

Belzona SuperWrapII System

SUBSTRATE

Carbon steel

PHOTOS

1. View of defect area.
2. Gritblasting details.
3. Gritblasting details and defect area patched and prepared using Belzona 1111.
4. Completed SuperWrapII application.

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