



Taper/Taper adhesive-bonded Joint



Brine Disposal line using Bondstrand® 3400 GRE pipe

While creating gas cavern storage facilities by controlled solution mining process, the produced brine is transported by pipeline to the mouth of the river Ems adjacent to the North Sea. An existing steel line with cathodic protection was to be separated from the sea water by a non-conductive and non-corrosive pipe section. For this last 300 meter long pipe section, EWE selected the Bondstrand 3400 GRE pipe with Taper/Taper adhesive bonded joint. Installation was performed by Bohlen & Doyen. The 12 meter pipe lengths were assembled to 24 meter sections and pushed into a 48 inch (1200 mm) casing pipe. The encased Bondstrand pipe is connected to a drainage pit in the River Ems where the brine is mixed with North Sea water.

In addition to the supply of the Bondstrand® GRE pipe system, NOV Fiber Glass Systems provided:

- Installation equipment
- Field service
- Pipe bonder training



Centraliser detail



DN900 Bondstrand in DN 1200 casing

Project

River Ems - Brine Disposal Project, Germany By Kusimex GmbH; Köln

Client

EWE Netz GmbH / EWE AG, Oldenburg - Germany

Pipe system

Bondstrand 3416 with Taper/Taper adhesive bonded joints

Diameter: 36 inch (900 mm)

Quantity: 300 meter

Operating conditions

Operating pressure: 4 - 5 bar

Operating temp: Ambient

Design pressure: 16 bar

Design temp: 30 °C

Test pressure: 24 bar

Installation date

August / September 2009