

**PROJECT**

High Pressure Brine Line



<b>LOCATION</b> Bramberge, Germany	<b>END USER</b> Gaz de France Suez, Germany
<b>PRODUCT</b> Yellow Box Line Pipe	<b>DIAMETER RANGE (MM)</b> 6"
<b>DESIGN PRESSURE</b> 1750 psi / 100 bar	<b>APPLICATION</b> Brine line with oil spots
<b>MARKET SEGMENT</b> Oil & Gas	<b>COMPLETION DATE</b> 2009

**DESCRIPTION**

Yellow Box epoxy pipe system, API 8 RD threaded integral joint connections, fully tensile resistant, overall installed length ca. 560 meter pipe 6"-L 1750 psi.

Pipeline has been hydro tested at 140 bar.

**THE FPI ADVANTAGE**

Totally corrosion free, even under the most severe conditions, long service life, based on minimum 50 years, light weight and easy installation.

Installation performance: It can be concluded after 25 years of installation experience, that machined API threads show a better performance during their entire lifetime, than molded-on threads. The installation of Yellow Box line pipe does not show any break out of threads (no air pockets), which will damage other parts of the threads by wearing during screwing and unscrewing of the joints. The nose design (pin end) shows that it can withstand higher peak loads compared to molded-on threads.

The Hazen-Williams friction factor 150 is applicable for the entire service lifetime.

Paraffin build up is significant less compared to steel pipe lines, mainly caused by the superior smooth inner surface of the GRE pipeline system. Less pigging actions needed to remove paraffin build up. Due to the high pressure design there is no need to install additional booster pumps near the injection wells.

The GRE system fulfils the minimum requirement of the so called "WEG-Regulations Stand 12-96", audited and tested by TÜV-Süd-Industrie Service GmbH, Munich.