



Key-Lock® mechanical joint



Water Well connection pipeline using Bondstrand® 3420 GRE pipe for ENI GAS BV Western Libyan Gas Project

The Wafa Field is located at the West side of Libya 600 km from the coastline, close to the border with Algeria. It is an oil and gas field with 15 oil wells, 22 gas wells and 6 water wells. Production is around 380 MMSCFD, 30,000 BBLD (barrel per day) of oil and 18,000 BBLD (barrel per day) of NLG.

The piping supplied by NOV Fiber Glass Systems was used to connect two new water wells to the plant. The wells produce water to be utilized for processing (utilities). Wafa Field is part of the WLGP (Western Libya Gas Project), one of the biggest projects of the Eni Group (2,6 billion Euro total Capital Expenditure).

Scope of supply

- 1989 meter of 4 inch Bondstrand 3420 Key-Lock
- Fittings
- All required tools
- Field Service Engineering
- Training and Certifying two crews in the first week of the project

Advantages

- Reduction in installation costs and time
- Expected long term service life 30 years
- Good UV resistance
- Corrosion resistant
- Maintenance free
- Light weight material

Project

Western Libyan Gas Project – Wafa Desert Plant, Libya

Client

ENI GAS BV – Libya branch, with China Petroleum Engineering Construction Corporation (CPECC) as executing contractor

Pipe system

Bondstrand 3420 with Key-Lock mechanical joints

Application: Transport line, partly trenched

Fluid : Water from water wells

Diameter: 4 inch (100 mm)

Quantity: Approx. 2000 meter

Operating conditions

Operating pressure: 20 bar

Test pressure: 30 bar

Operating temperature: Ambient

Design temperature: 93 °C

Installation date

4th quarter 2006