



Case History

48 km of spoolable LinePipe deployed in Cooper Basin in 11 days

CH2055

Location

Australia's Cooper Basin

Product

Fiberspar LinePipe™

Problem

A producer in Australia's Cooper Basin was planning a 48-km flowline installation in a challenging region. The flowline would be transporting natural gas containing 25% aromatics at high flow rates and temperatures (75°C). It was realized that reinforced thermoplastic pipes (RTPs) could face possible strength problems due to HDPE softening. Although it has been used for many years in North America, non-corroding spoolable glass reinforced epoxy (SGRE) pipe was an obvious but untried alternative.

Solution

Proven, extensively tested and widely adopted in North America, South American and the Middle East, Fiberspar spoolable LinePipe was able to resolve all of this operator's regulatory and performance challenges based on its excellent testing track record, API certifications, and field performance for more than 450 operators and 15,000 oil and gas wells.

Because LinePipe is immune to corrosion, and is designed with an interior HDPE barrier layer to contain the fluid and an outer structural GRE layer that provides pressure retaining ability and strength, it provided a non-corroding, low-maintenance solution for this high-aromatics gas environment, and a significant reduction in operating costs. To meet the operator's need for high flow capacity, multiple lines were easily installed in a single ditch. This was an easy, cost-saving endeavor because LinePipe is spoolable and flexible, and requires no padding, precision trenching or other special preparation.

Fiber Glass Systems

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Results

The 48-km line of FSLP 4.50 1500 was installed from Middleton to Brownlow with impressive speed and efficiency despite the terrain.

- 3,991 m of pipe was laid on average per day, with a peak of 8,232 m laid in a single day.
- 11 days to complete 48 km of pipe
- 17 days to complete pipe and riser installation
- Zero hydro-test failures (passed 1st time)

This pipeline is now successfully operating at 75°C with contents containing 25% aromatic hydrocarbons. This breakthrough project is an exciting development for producers in the area, proving that LinePipe not only meets all Australian regulatory and performance standards, but that it also overcomes some of the most pressing installation and maintenance challenges faced by global operators.

To learn more about the efficiency and cost-saving advantages of this proven, innovative technology, go to www.nov.com/fgs.