

Fresh Water Line Optimization in an Oil Field in Argentina



Greater operational efficiency with fewer joints and fast implementation.



Phoenix Global Resources
Argentina | 2025

• Working Conditions

Temperature: 20 °C / 68°F
Pressure: 12 kg/cm²
Fluid components: Fresh water

• Pexgol Pipe

Pexgol 110 mm, Class 24

• Application

Fresh water transport

• Length

1260 m / 4133 ft

The Challenge

Phoenix Global Resources, an independent company focused on hydrocarbon exploration and production in Argentina, required the implementation of a new pipeline to transport fresh water from an intake point to its Central Processing Facility (CPF).

The main challenge of the project was not only the fluid conveyance itself, but also the execution conditions: it was essential to minimize installation time, optimize operational costs, and significantly reduce the number of joints along the pipeline route.

In this context, traditional solutions implied longer installation times, a greater need for fittings, and an increase in potential failure points. Additionally, the operation required a reliable solution capable of working at a pressure of 12 kg/cm² with a constant flow rate, ensuring continuity in the water supply for production processes.

The Solution

For this project, a 110 mm (Class 24) Pexgol pipe was implemented, with a total length of 1,260 meters, designed for fresh water transport under demanding operating conditions.

The selection of Pexgol made it possible to drastically reduce the number of joints thanks to its supply in long continuous lengths, improving system reliability and reducing installation time.

Project execution was completed in just 3 days, including trench installation, jointing through electrofusion and mechanical connections, and the final hydrostatic test.

A key aspect was the technical support provided during installation, as the contractor had no prior experience handling Pexgol pipes. This support ensured proper execution and maximized the system's benefits from the outset.

Thanks to its flexibility, low weight, and ease of handling, the Pexgol solution enabled a fast, safe, and efficient installation, meeting the client's objectives in terms of time, costs, and operational reliability.



The Advantages of Pexgol Pipe Systems



High resistance to wear

Pexgol is the preferred solution for abrasive materials transportation. Typically resists three times more than HDPE and twice more than steel.



Superb internal and external corrosion resistance

Our pipes are proven to withstand decades of exposure to corrosive environments, with nonstop performance in some of the world's harshest environments.



Excellent chemical and corrosion resistance

Pexgol pipes can resist a wide range of chemical agents, slurries, toxic and radioactive materials.



Long pipe sections

Pexgol pipes can be supplied in long coil lengths, reducing number of joints, installation time and risks.



High temperature resistance

Working temperatures can range from -50°C / -58°F up to 110°C / 230°F .



Creep and impact resistance

Pexgol pipes can withstand high amounts of axial and radial stresses and are highly resistant to impact, fracture and fatigue. Furthermore, Pexgol pipes are completely resistant to cracks even when dragged over sharp rocky terrain and coagulated salt crystals.

For more information please visit:
pexgol.com

