



Dry gas line for pump activation.

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**ExxonMobil**  
Argentina | 2020  
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**Working Conditions:**

Maximum pressure: 9 kg / cm<sup>2</sup>  
Temperature: 25°C  
Type of installation: underground

**Pexgol Pipe:**

Pexgol 90 mm (3") Class 10

**Application:**

Dry gas transportation

**Length:**

1880 m

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**The Challenge**

ExxonMobil, the unconventional oil field operator located in Neuquén (Argentina), was analyzing the installation of an underground line to convey dry gas. It was used as fuel to drive pumps to transport large volumes of water, used in the development of unconventional deposits.

The company evaluated different pipe alternatives such as: 2-inch diameter carbon steel, or Pexgol cross-linked polyethylene pipe. In addition to the cost, the main premise in the analysis was the reduction of the time of provision and installation of the pipe, which had to be in service in the shortest possible time to supply the needs of the drilling equipment operating in the deposit.

**Pexgol Solution**

The local team (Argpex) proposed to use a 90 mm diameter Pexgol pipe, class 10 in coils of just under 630 m each. The manufacture and transportation of 1000 km, was carried out in the course of a week. The uncoiling and unwinding was carried out in a single day with minimal equipment consisting of an uncoiler and a vehicle to pull the pipe, in this case a backhoe. Electrofusion joints were made in one day. The cost of the Pexgol material, including transportation to the location, represented less than 20% of the cost that a 2-inch carbon steel pipe





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would have consumed only materials and welding labor. A hydraulic test was carried out and the operation was subsequently started with positive results.



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## Advantages

- **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.
- **Excellent chemical and corrosion resistance:**  
Pexgol pipes can resist a wide range of chemical agents, slurries, toxic and radioactive materials.
- **High temperature resistance:**  
Working temperatures can range from  $-50^{\circ}\text{C}/-58^{\circ}\text{F}$  up to  $110^{\circ}\text{C}/230^{\circ}\text{F}$ .
- **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.
- **Long pipe sections:**  
Pexgol pipes can be supplied in long coil lengths, reducing number of joints, installation time and risks.
- **Creep and impact resistance:**  
Crosslinked 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.

