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Installation of Pexgol pipes for the transport of formation water (gas and minerals)

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**Canacol**  
**Colombia | 2018**  
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**Operative Conditions:**

Water with gas and minerals  
Pressure: 15 bar  
Temperature: 20°C

**Pexgol pipe:**

Pexgol 160 mm (6"), Class 15

**Application:**

Formation water transportation

**Length:**

11 km

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**The Challenge**

Canacol together with the engineering company A.B. Projects had the mission of creating new wells for gas extraction and transporting it for distribution in Cordoba, Colombia.

Due to the high pressure for the gas transportation (above 100 bar) the client used Flexsteel (flexible pipes made of layers of polyethylene and steel). Additionally, at the exit of the wells, the gas had to be separated from the water that was underground through a turbine. But the separated water still contained traces of gas and minerals that needed to be treated once again.

**Pexgol Solution**

Canacol and A.B. wanted to use a reliable pipe to carry out the separation of water from surplus gases and minerals, but having used the Flexsteel pipe would have incurred on excessive expenses. Therefore they selected Pexgol thanks to its possibility of supply in long lengths, its high levels of safety and its low installation cost (versus other materials for high and low pressures). The 11 km of pipe were installed in just one week: the uncoiling and laying of the pipes took 3 days and then the joints were connected by electrofusion and the pipes buried.

Pexgol proved once again to be an excellent solution for oil or gas wells where it is required to transport water for treatment with pressures that are below 30 bar.



## Installation of Pexgol pipes for the transport of formation water (gas and minerals)

### 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°C/-58°F up to 110°C/230°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.

