



Extraction of underground water through wells

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Working conditions:

Extreme environmental temperatures
(-25°C to 40°C)

Pipes used:

Pexgol 280 mm, Class 10

Application:

Underground water extraction

Length:

200 m

The Challenge

Collahuasi Mine extracted process water through wells, they used a galvanized steel pipe. This pipe had several failures on its joints and demanded a long time installation process (around 3 days).

The client required a more flexible pipe, with longer working life than the steel, in order to keep the operations stable and minimized the stops in the plant for maintenance.

The Solution

A Pexgol pipe was installed in less than 3 hours, reducing 24 times the average installation time. Its weight was lighter than steel (70% less), so it involved less workers, less tolls, and less equipment to leave the well full operative. During the working life of the well, the Pexgol pipe didn't require any sort of maintenance, and it was employed after in another application at the plant.



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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°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 non-stop performance in some of the world's harshest environments.
- **Low weight:**
Compared to steel or rubber, Pexgol's solution results in reduced transportation, storage and labor costs due to lower weight per meter.
- **Long pipe sections:**
Pexgol's pipes can be supplied in long lengths coils, reducing number of joints, installation time and risk.
- **Creep and impact resistance:**
Pexgol's crosslinking piping solution can withstand high amounts of axial and radial stresses and are highly resistant to impact, fracture and fatigue. Our pipes are also completely resistant to cracks – even when dragged over sharp rocky terrain and coagulated salt crystals.

