



Water extraction from deep wells (150 meters)

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Andacollo Mine

Chile | 2015

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Working conditions:

Extreme environmental temperatures
(-5°C to 38°C)

Pipes used:

Pexgol 110 mm, Class 24 (SDR 7.4)

Application:

Water extraction

Length:

150 m

The Challenge

At Andacollo Mine, the process water was extracted from deep wells through a steel galvanized pipe. This pipes suffered repetitive failures on the joints and required a considerable long installation time. The client requested a pipe that could last longer, in order to minimize the stops at the plant for maintaining purposes.

The Solution

Golan provided 150 meters of Pexgol pipe 110 mm Class 24 (SDR 7.4) in one section. The pipe, once it was installed, managed to hold the weight of the pump, the cables and the water column, with no efforts. For the pump maintenance, usually it requires to be extracted from the well. Thanks to Pexgol, Andacollo Mine managed to save time and money, due to the capacity to extract the pipe when is full of water, and there's no need to do any drain.

Moreover, usually for a steel pipe it would have required more than 25 screwed joints, but with Pexgol it only took 2 (one to the pump and another one to the wellhead).



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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.

