



Replacement of carbon steel pipe for a Pexgol pipe

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Cargill
Mexico | 2017
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Working conditions:

Work at a depth of -65 meters

Pipes used:

Pexgol 100 mm (4") SDR 11

Application:

Water transportation

Length:

50 meters

The Challenge

In the plant "Purina" the water for production is taken from a well. Originally they used carbon steel pipes to transport the water, which were useful only for a year, then they had to change the pipes since they suffered serious corrosion problems. This phenomenon happened due to the high sodium content of the groundwater.

The Solution

The customer required a flexible pipe with a longer service life than carbon steel pipes to maintain a stable operation and minimize sudden stoppages for maintenance operations. It was, therefore, decided to supply a pipe of 110 mm diameter in a single section which can withstand without any inconvenience the weight of the pump, the cables, the water column and the weight of the pipe.



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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 nonstop performance in some of the world's harshest environments.
- **Long pipe sections:**
Pexgol's pipes can be supplied in long lengths coils, reducing number of joints, installation time and risks.
- **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. Also are completely resistant to cracks even when dragged over sharp rocky terrain and coagulated salt crystals.

