The different methods of cementation

Casing annulus packer and injection rod

Cementation with an injection rod in the annulus.

Swage packer

Cementing valve and double packer

Cementation of the annulus with a double packer through a cementation valve. In this case, both swage packer and casing annulus packer can be used. The deflation of the upper packer only, allows the circulation of water to clean the new liner and remove the cement.

Casing annulus packer

Cementing valve

Cementation of the annulus with a special cementation tool through a cementation valve. This method is very cost efficient when several similar wells are to be repaired at the same time.

These three methods are fast and efficient. They do not require any hydraulic filling (gravels, bentonite...), and avoid long drilling and cleaning operations after the cementation. The production pump can be quickly reinstalled.