

# AQUAPLUS®

## Brunnensanierung

for over 40 years



Exclusive, patented processes with convincing results.

Environmentally friendly - perfectly suited for every type of well.

**AQUAPLUS - the future of well rehabilitation**

## The problem:

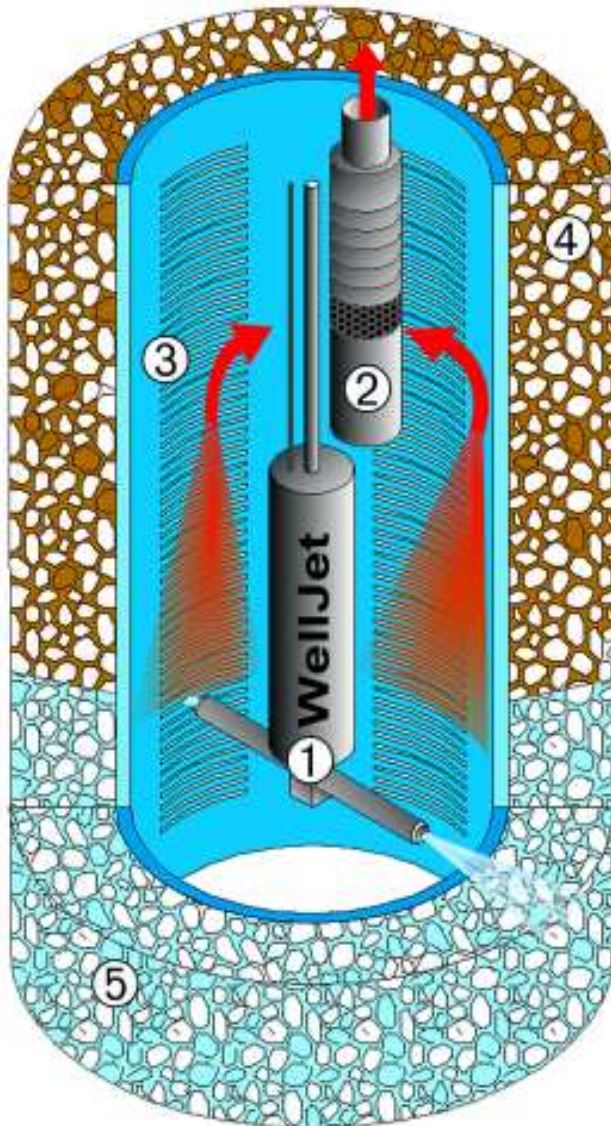
The well yield is reduced by symptoms of natural ageing, such as mineral incrustations, sanding up or biofouling. These can be removed by preventative action in time.

Our aim is to preserve your valuable drinking water wells by means of careful, yet extremely effective regeneration. Over 40 years of

experience in well rehabilitation enables us to offer you a range of different processes optimally suited to clean your wells thoroughly as well as economically.

## The prophylaxis:

Regular mechanical cleaning can generally prevent the need for extensive chemical regeneration requiring official approval, and also keeps the wells at full capacity!



- 1 Force-fed rotation nozzle with controlled speed monitoring
- 2 Submerged motor pump
- 3 Well pipe
- 4 Uncleaned area
- 5 Cleaned area

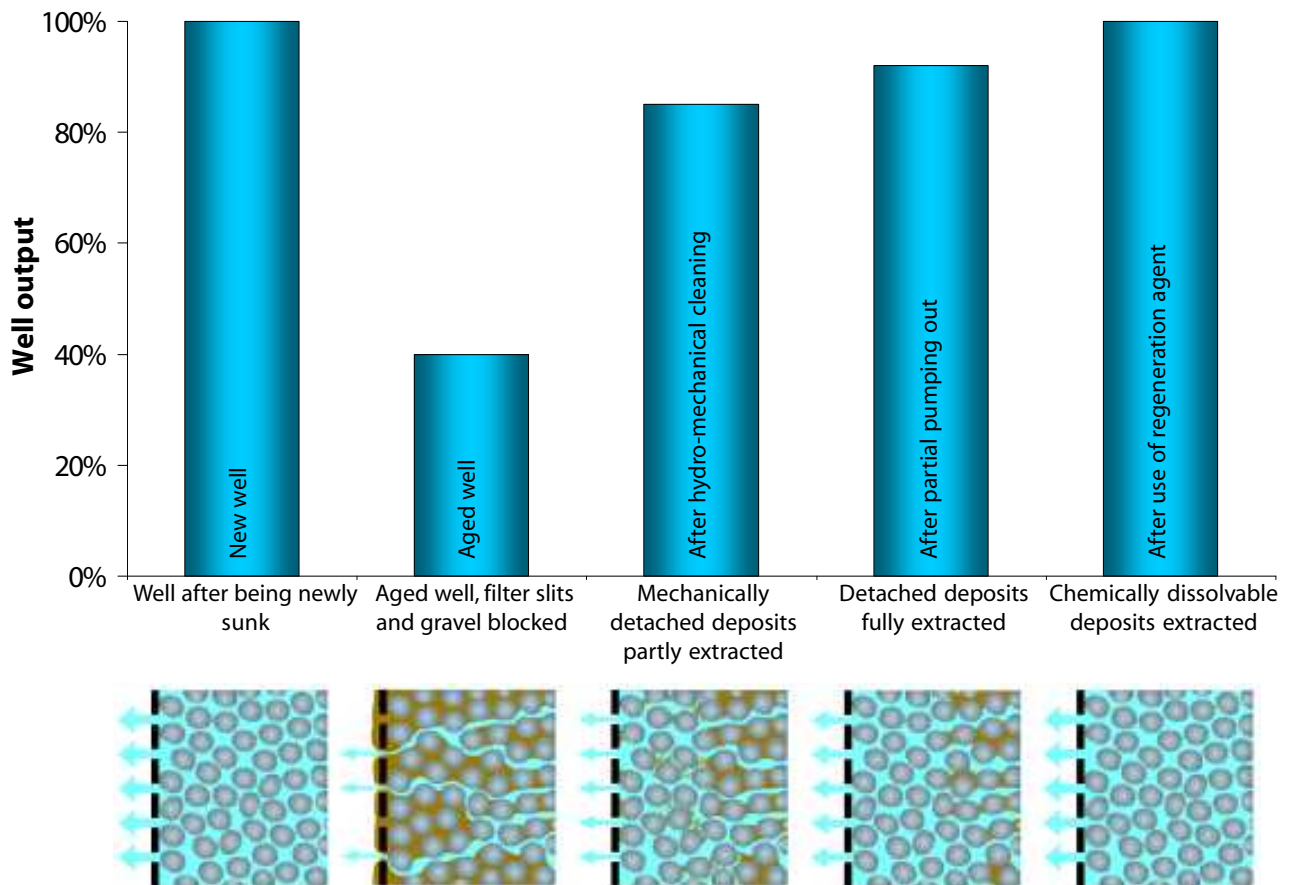
## Well before regeneration:



## The WellJet®-process:

- Environmentally-friendly - without chemicals
- Wells cleaned from Ø80 - Ø1500 mm up to 1000 m depth
- Water pressure adapted to the degree of pollution and the pipe material (6 to 50 MPa)
- Monitoring of the force-fed rotation nozzle arrangement: Headway, rotation speed, water pressure. This enables destruction-free, thorough cleaning of the well wall, the filter slits and the adjacent gravel bed.
- Detached encrustations are simultaneously pumped out.
- German patents (DE 40 17 367, DE 198 23 401)

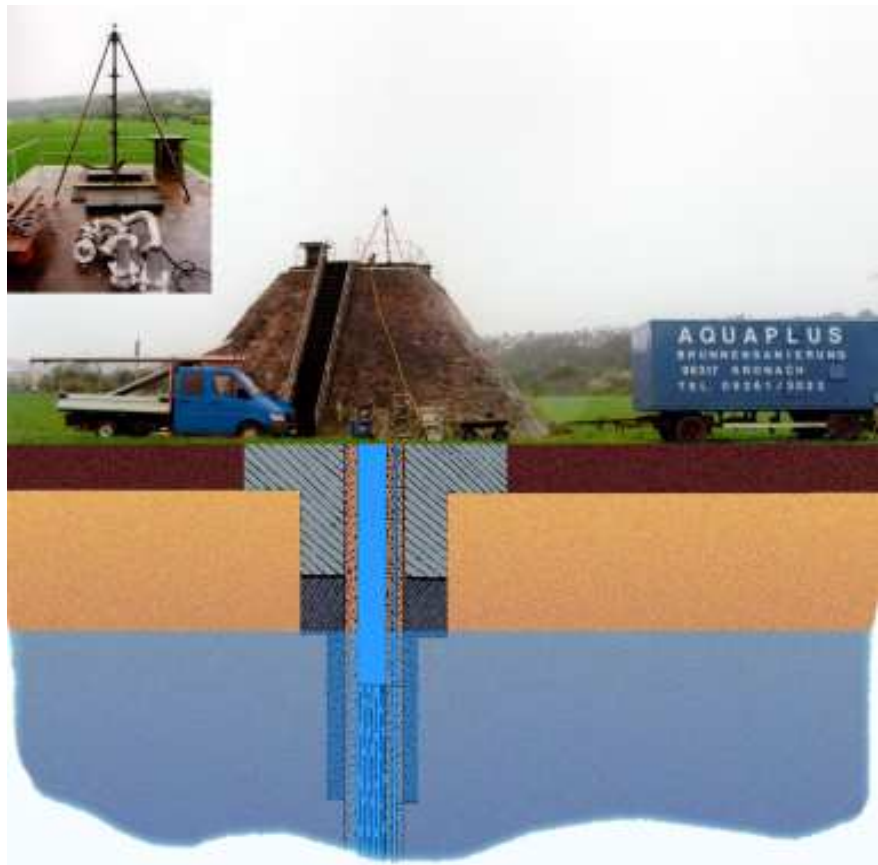
## Well status during the different cleaning stages



**WellJet® and WellReg® - the perfect team for sustainable well rehabilitation**

### The procedure:

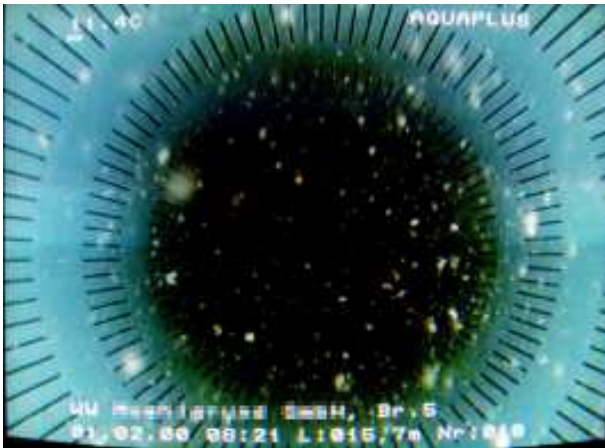
- Dismantling of pump
- TV analysis
- Measuring of capacity
- Preliminary mechanical cleaning
- Hydro-mechanical cleaning
- Partial pumping out
- Optionally, partial de-sanding per section
- Optionally, use of regeneration agent
- Measuring of capacity
- TV analysis
- Assembling of pump
- Start-up



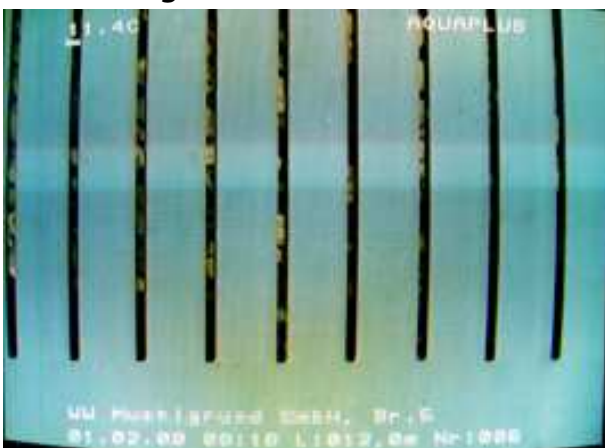
## The WellReg®-process:

- Suitable for all well construction materials.
- Optimum monitoring of the cleaning process by means of continuous measurement and control of the blow out pressure of the collars, measurement of the pH-value and of the filter resistance in the working section.
- Economic use of regeneration agent whilst optimally increasing the well yield.
- Full compatibility with all common regeneration agents.
- The regeneration agent and the detached deposits are fully extracted from the well by subsequent partial pumping out of the filter route with the AQUAPLUS work cylinder
- German patents (DE 40 32 118, DE 40 17 013)

## Well after regeneration:

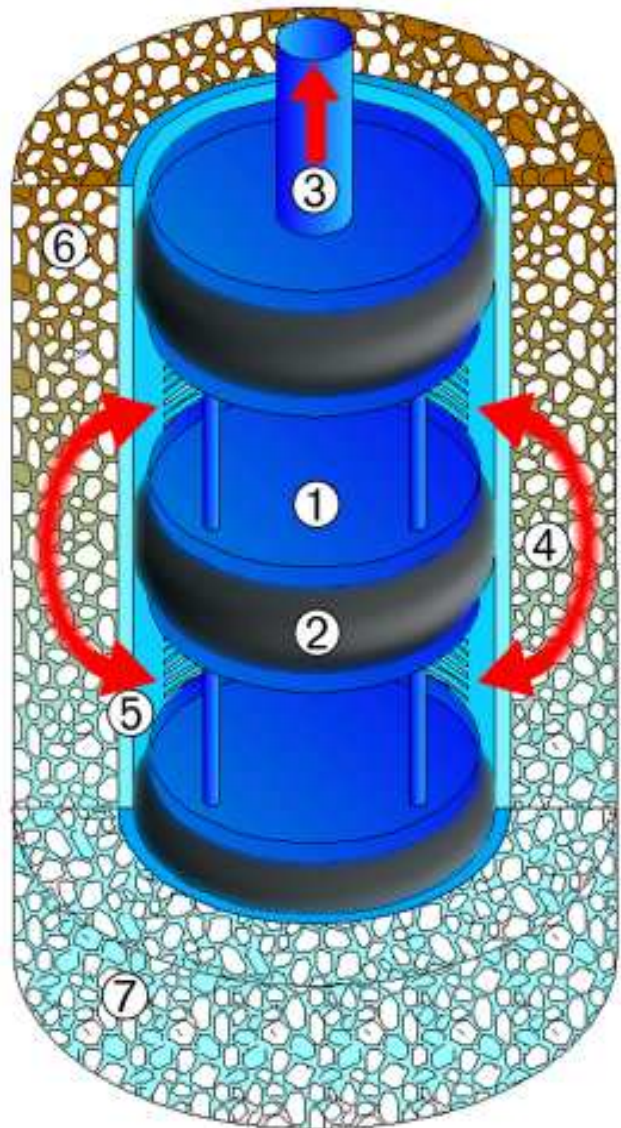


## View through the filter slits:



## The service:

Good value-for-money and highly effective cleaning for your valuable wells - or are you satisfied with something less professional?



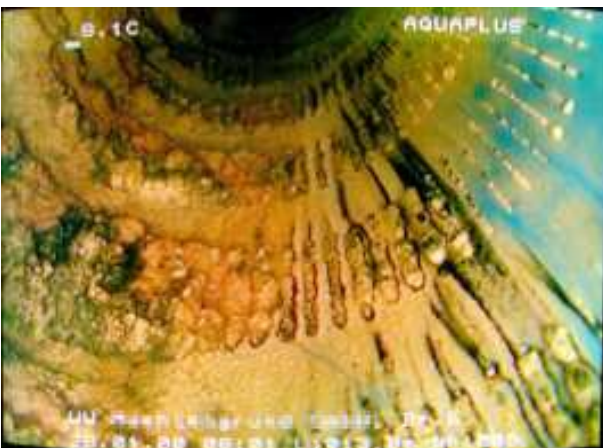
- 1 Work cylinder
- 2 Sealing collars
- 3 Air lift
- 4 Working section
- 5 Well pipe
- 6 Uncleaned filter section
- 7 Cleaned filter section



## **AQUAPLUS-WellSpec®:**

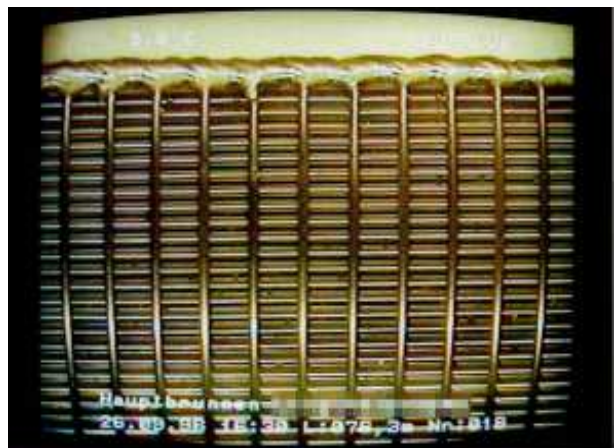
Underwater television investigation of:

- vertical and horizontal wells and gauges
- spring lines and pipes
- starting at 50 mm diameter
- up to a depth of 1200 m
- up to 60°C water temperature
- axial- , radial- (radial-axial) cameras and
- two system cameras.



## **OUR SERVICES**

- TV analysis of the state of the well (optionally with incline and north direction measurement), pump trials, sampling, calibration etc.
- Well cleaning with brushes, high-pressure cleaning, mechanical-hydraulic cleaning (as per DVGW instruction notice W130), partial intensive de-sanding (as per DVGW instruction notice W117/W119).
- Mechanical-chemical well regeneration with patented process.
- Well rehabilitation by using repair collars or insertion pipes.
- Cleaning of springs (cutting of roots) and drinking water pipes.
- Cleaning and rehabilitation of horizontal filter wells.



# AQUAPLUS® Brunnensanierung

## OUR PROFILE



- Established: 1956
- Headquarters: Kronach
- Managing Director:  
Dipl.-Inf, Dipl.Wi-Ing. Harald Munding
- Workforce: 40
- TV-vehicles: 4
- Service area: Europe, Northern Africa
- Own research and development
- Own special machine construction

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