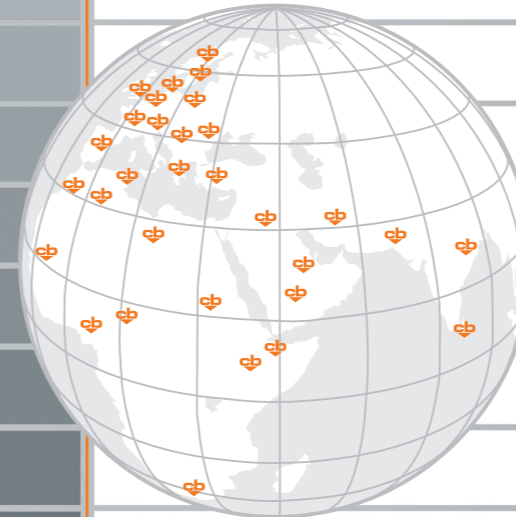


**Our work & services:**

- 1** Exploration drillings
- 2** Groundwater measuring points
- 3** Well-drilling
- 4** Thermal and mineral water wells
- 5** Well regeneration
- 6** Well examinations
- 7** Irrigation wells
- 8** Thermal/mineral water wells
- 9** Seismic drillings
- 10** Geothermal probes
- 11** Domestic water supply systems
- 12** Core drillings
- 13** Site exploration drillings
- 14** Environmental engineering
- 15** Water provision
- 16** Anchoring technology



**Fields of Application**



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*Technology in depth*



**Our work & services**

- 1**
- 2**
- 3**
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**Trademark: Capability**

Lower Saxony - Right from the traditional centre of German drilling technology, **celler brunnenbau** is supplying innovative drilling technology throughout the world. Founded in 1975 by the master well borer Wilfried Wietfeldt, **celler brunnenbau** together with its subsidiaries offers excellent expertise, pioneering drilling logistics and revolutionary solutions in the fields of ground exploration, well boring and environmental technology. The excellent qualifications and flexible organisation of the employees facilitates the international deployment of persons and equipment in now over thirty countries in all parts of the world. Sustainable quality and reliability bring our experts into demand as consultants and partners on well and drilling projects of all magnitudes. Water utilities, energy suppliers and industry know that they can depend on the capabilities of **celler brunnenbau**.

**Well drilling**

Drillings for communal and private commercial water supplies, in particular in the beverages industry, form one of the essential core capabilities of **celler brunnenbau**. With their special equipment our specialists reach drilling depths of up to 1,500 metres in all geological formations with a drill diameter of up to 1,500 mm. **celler brunnenbau** is therefore making a significant contribution to the development and scientific exploration of increasingly sparse potable and service water supplies at home and abroad. Access to valuable mineral water and geothermal brine are also obtained down to depths of 1,500 metres. Irrigation wells provide inexpensive water independent of the mains for agriculture, horticulture and the antifrost irrigation of plantations. Modern domestic water supply systems from one supplier for detached houses, weekend retreats and stables outside built-up areas complete the range of products with pump systems and pressure control equipment for automatic water supply.



**Environmental technology**

Industrial pollution in the ground damages the environment. Particularly, if it is detected too late, it prevents proper usage and cultivation. This is because pollutants do not always lurk directly below the surface. Consequently, **celler brunnenbau** has developed techniques for the early identification and restoration of contaminated ground and has in this respect extended its range of services to include the provision of wells for degassing tips and making them safe.

For monitoring the availability and quality of the ground water, single and multiple measuring points are set up with secure sealing of the aquifers with respect to one another. Experienced application of rotary jetting drilling contributes to cost-effective implementation.

**Seismology**

We remain true to our roots! As before, drilling work for the oil and gas industry for prospecting for fossil raw materials and fuels is a significant activity for **celler brunnenbau**, both at home and abroad. Ongoing further development of drilling equipment and personnel training guarantee the customer that his order will be realised quickly and at the same time with high operational safety and the greatest possible environmental protection.



**Geothermal projects**

With the use of geothermal energy, **celler brunnenbau** is providing home owners and companies with an attractive, environmentally friendly alternative to oil and gas. Professionally deployed geothermal probes in combination with heat pumps that burn no fuel offer a clear price advantage and operate over decades with almost no wear. Irrespective of the season and weather, the probe transports inexhaustibly constant natural heat from the depths of the earth into the heating and hot-water systems of any size of building.

As a well-proven and certified partner for geothermal systems our specialists ensure calculable independence without disadvantages.



**Construction-site examination / exploration of usable raw material deposits**

Construction-site exploration drilling ensures realistic project planning and solid structural foundations. In these cases representative preliminary exploration gives information on the quality and composition of the building substrate. Where there are particularly high demands, contiguous drilling cores are obtained for this purpose from unconsolidated and consolidated material by means of core drilling.

For the exact prospecting for usable deposits of clay, gravel, sand, chalk, etc., we have been employing for decades the pile and wireline core barrel technique, providing customers with a reliable planning basis through high quality samples.

**Well service**

Wells are subject to natural ageing with a corresponding reduction in performance. Maintenance, yield tests and camera inspection by our specialists indicate the repair options. Effectively and while preserving the environment, they regenerate the well mechanically, chemically or by using the oxygen-hydrogen pulse technique. Through the controlled installation of insertion collars our specialists repair mechanical damage without significantly reducing the well clearance diameter.

Our capabilities contribute to the good reputation of the Celle region as an innovative location for the export of technology in depth to all countries in the world.

