



Prediction reliability underground
competent. reliable. flexible.

POLYMETRA 
EXPERTS FOR WELL TESTING

Prediction reliability.

In line with this aspiration, Polymetra offers integral, high quality solutions around the borehole for the reliable exploration of the subsurface. All over Europe, experts rely on our professional services when it comes to accurate interpretation and characterisation combined with high economic benefit. Because in the end only one thing matters: PREDICTION RELIABILITY.

Competence, experience and passion form the basis for success



Marc Pesendorfer

Hydrogeologist, ETH Zurich, Switzerland

Core competencies:

- geological, hydrogeological exploration works, in particular in tunnelling and mining
- hydrogeological studies, In-situ-Testing and instrumentation
- analytics and software engineering



René Löpfe

Geologist, ETH Zurich, Switzerland

Core competencies:

- geological, hydrogeological and geotechnical exploration and prospecting works
- Geological 3D modelling
- Management of complex projects



Rainer Schwarz

Geophysicist, Bergakademie Freiberg and University of Karlsruhe, Germany

Core competencies:

- hydraulic and geophysical testing
- hydrogeological data analysis and interpretation
- hydraulic characterisation and modelling
- software engineering



Dylan Longridge

Geophysicist, ETH Zurich, Switzerland

Core competencies:

- geohydraulic & geotechnical in-situ testing
- hydrogeological monitoring
- geophysical surveying and analysis
- project management, QC

Hydrogeological In-situ-Testing



Areas of application

- underground structures, such as tunnel, caverns
- site evaluation of landfills and contaminated sites
- risk assessment of natural hazards
- testing and sampling of particular aquifers at any depth
- rock assessment for jet grouting
- site evaluation for geothermal energy



Decisive advantages at a glance

- up to f 3 reduced downtimes due to IOR and SIT technology without external pressure lines
- simple installation on standard drill rods
- cost efficiency thanks to customised services
- highest prediction confidence by including all relevant hydraulic parameters into the data analysis

In-situ rock stress testing



Areas of application

- underground structures such as Tunnel and caverns
- dams and power-house caverns
- dimensioning of pressure tunnels and shafts
- underground storage infrastructure



Convincing benefits

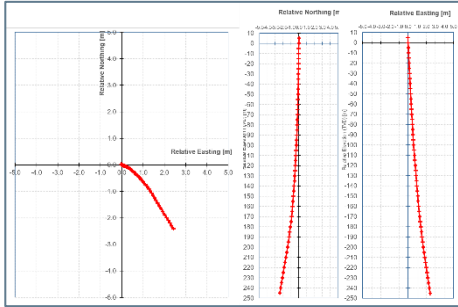
- up to 60% shorter testing time due to ADV technology
- lower costs thanks to the choice of customised service packages tailored to requirements
- highest prediction confidence thanks to expert knowledge and advanced analysis methods
- borehole diameter from 60 mm to 216 mm

Gyro trajectory measurements



Areas of application

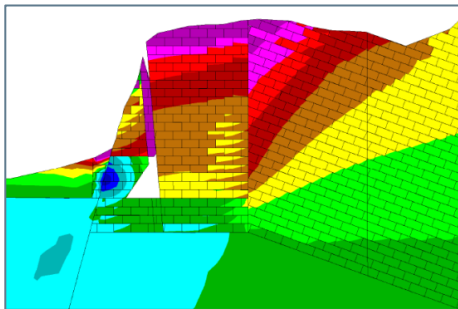
- pilot and directional drilling
- exploratory drillings
- pipe umbrella screen and injection drilling
- freezing boreholes
- raise-drill pilot drilling
- large-scale geothermal drilling
- pile foundations, rock- and soil anchor drilling



Benefits at a glance

- no need to remove rods
- up to f 5 shorter measuring time compared to magnetic probes for cased holes
- first results within 30min. directly on-site
- highest trajectory accuracy < 0.2% (2m/1000m)
- vertical drillings d 30mm - 1200mm
- directional drilling and wedge orientation service
- drilling depths up to 6000m with heat shield up to 260°C

Consulting



Geotechnical Consulting

- comprehensive expert consulting on geotechnical borehole measurement campaigns
- hydrogeological and geotechnical investigation and modelling
- hydrogeological and rock mechanical risk assessment of natural hazards
- geotechnical dimensioning

Successful customers rely on alternatives from Polymetra



Need further information?
Dr. Marc Pesendorfer will be happy to support you.

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