



Mont Terri Rock Laboratory

Field report: November 7–13, 2022 (Phase 28)

DR-B (Long-Term Diffusion) experiment

- On Thursday, G. Graf and S. Schefer (swisstopo) inserted the XRF-probe into BDR-B6 and started a measurement. Unfortunately, they ran into some software issues. Therefore, the next measurement can only start next week.

FS-B (Imaging the Long-Term Loss of Faulted Host Rock Integrity) experiment

- From Monday to Wednesday, A. Eul and S. Braunschweig (Eul GmbH) drilled borehole BFS-B11 across the Main Fault to its final depth of 35.7 m.
- On Wednesday, M. Garcia and D. Fischer (Terratec) performed logging inside BFS-B11. They ran optical borehole imager, caliper, dual induction, spectral gamma and nuclear magnetic resonance (NMR) logs. NMR was furthermore measured statically at several points.
- On Thursday, A. Ammon and J. Gisiger (Solexperts) installed fiber-optic cables behind casing inside BFS-B11 (**Figure 1**).
- The core documentation and sampling of borehole BFS-B11 was done by PX Meury (GéoEnvironnement), G. Graf and P. Maeder (swisstopo).

PF (Progressive Rock Mass Failure and Overbreak Sealing) experiment

- From Tuesday to Friday, M. Furche (BGR) remotely performed ERT-measurements in the monitoring boreholes around BPF-7 (BPF-1 to BPF-6). He was assisted by the swisstopo team.

SW-A (Large-Scale Sandwich Seal in Opalinus Clay) experiment

- On Tuesday, P. Maeder and S. Schefer (swisstopo) measured the geodetic positions of the ERT-receivers inside shaft 2 (rings 11–20).
- On Thursday, T. Theurillat (swisstopo) refilled the high-pressure tank.

Varia

- On Wednesday, the board of BGE was visiting the lab (**Figure 2**). They were guided by C. Nussbaum (swisstopo) and M. Fritschi (Nagra).

Visits

Wed	09.11.2022	BGE Geschäftsleitung	6	C. Nussbaum, M. Fritschi
Thu	10.11.2022	NWS VIP visitors	6	O. Leupin
Fri	11.11.2022	Nukleartechnikerschule Einführungskurs Kerntechnik E-22-2	15	R. Nicol
Sat	12.11.2022	Besuchstag Nagra	40	H. Sager, O. Moser

D. Jaeggi and S. Schefer, November 13, 2022



Figure 1: FS-B: Installation of the fibre behind casing inside BFS-B11 (Photo: S. Schefer, swisstopo).



Figure 2: Varia: The board of BGE (Photo: C. Nussbaum, swisstopo).