geo explorers

KELLERHALS + HAEFELI AG GEOLOGEN BERN STANS
Ingenieurgeologie
Hydrogeologie
Abbau und Deponie
Naturgefahren
Altlasten und Boden

Stadel-2-1

nagra

East (CH1903+/LV95):	2'677'447.617	Composite plot date:	19.10.2021
North (CH1903+/LV95):	1'265'987.019		
0 MD referenced to top rig cellar at:	417.98 m a.s.l (LFP3)	Spud date:	22.01.2021
Structural geology experts:	A. Ebert, S. Cioldi, E. Hägerstedt	End of drilling date:	27.06.2021
QC-structural geology expert:	K. Decker		
Project managers:	M. Gysi, HP. Weber, M. Stockhecke		

Structural geology plot 1:100 (465.00 m - 740.00 m MD log depth)

Legend:

- Undifferentiated bedding
- Deformed bedding
- Fractures
- Joints
- Tension gashes / veins
- Fault planes
- Mirror-like fault planes
- Stylolitic fault planes
- Stylolites
- Fold axes
- ● Centreline fractures
- ● Borehole breakouts
- FDC 2: 20 to 60 m²/m³
- FDC 3: 60 to 200 m²/m³
- FDC 4: > 200 m²/m³

Metres MD
System / Period (log depth)
Group (log depth)
Formation (log depth)
Borehole deviation (log depth)
0° 5°
CAL (log depth)
GR (log depth)
PEF NPOR DENS (log depth)
RES (log depth)
Lithology (core depth)
Metres MD
Acoustic amplitude dynamic (log depth)
FMI static (log depth)
360 deg. core photos (log depth)
Planar photos (log depth)
Core sections / confidence (log depth)
Metres MD
Tadpole plot - undifferentiated bedding, cross-bedding & deformed bedding (log depth)
0° 90°
Tadpole plot - fault planes, mirror-like fault planes, stylolitic fault planes, fractures, joints & tension gashes / veins (log depth)
0° 90°
Tadpole plot - stylolites and fold axes (log depth)
0° 90°
FDC (log depth)
Fault zone (log depth)
Stylolite zone (log depth)
Tension gash zone (log depth)
Undifferentiated bedding, cross-bedding & deformed bedding (log depth)
P32 all natural structures (log depth)
(m²/m³)
45
0
Fault planes, mirror-like fault planes & stylolitic fault planes (log depth)
P32 fault planes, mirror-like fault planes & stylolitic fault planes (log depth)
(m²/m³)
Fractures, joints & tension gashes / veins (log depth)
P32 fractures, joints & tension gashes / veins (log depth)
(m²/m³)
Stylolites (log depth)
P32 stylolites (log depth)
(m²/m³)
In situ stress indicators (log depth)
0° 360°
Metres MD
Late Jurassic
Malm
«Felsenkalke» + «Massenkalk»
Schwarzbach Fm.
Villigen Fm.
Wildegg Fm.
Middle Jurassic
Dogger
Wutach Fm.
Variansmergel Fm.
«Parkinsoni-Württ.-Schichten»
470
475
480
485
490
495
500
505
510
515
520
525
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535
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695
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705
710
715
720
725
730
735
740

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Structural geology profile Stadel-2-1, 1:100, 465.00 m to 740.00 m MD log depth	
Dossier V	DAT.: Sep. 2022 — **Appendix C-1**