**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 (715.00 m - 990.00 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)
Low Amplitude High Amplitude
FMI static (log depth)
Resistive Conductive
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)
Tadpole plot - fault planes, mirror-like fault planes, stylolitic fault planes, fractures, joints & tension gashes / veins (log depth)
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)
Fault planes, mirror-like fault planes & stylolitic fault planes (log depth)
P32 fault planes, mirror-like fault planes & stylolitic fault planes (log depth)
Fractures, joints & tension gashes / veins (log depth)
P32 fractures, joints & tension gashes / veins (log depth)
Stylolites (log depth)
P32 stylolites (log depth)
(m²/m³)
0 45
In situ stress indicators (log depth)
0° 360°
Metres MD
Late Jurassic
Malm
Wildegg Fm.
Wutach Fm.
Variansmergel Fm.
Middle Jurassic
Dogger
«Parkinsoni-Württembergica-Schichten»
«Herrenwis Unit»
«Humphriesioolith Fm.»
Wedelsandstein Fm.
«Murchisonae-Oolith Fm.»
Opalinus Clay
Early Jurassic
Lias
Staffelegg Fm.
Late Triassic
Keuper
Klettgau Fm.
Bänkerjoch Fm.
720
725
730
735
740
745
750
755
760
765
770
775
780
785
790
795
800
805
810
815
820
825
830
835
840
845
850
855
860
865
870
875
880
885
890
895
900
905
910
915
920
925
930
935
940
945
950
955
960
965
970
975
980
985
990

**nagra** **NAB 22-02**

Structural geology profile Stadel-2-1, 1:100, 715.00 m to 990.00 m MD log depth

**Dossier V** | DAT.: Sep. 2022 | **Appendix C-2**