35.97369° N,
83.44148° W

35.97369° N,
83.44094° W

PLATE 1

Detailed Geologic Map of Sevier Shale and Quaternary Sediments at Site DL-6, West of Dandridge, Tennessee

by
Kathleen F. Warrell and James D. Vaughn
assisted by
Robert D. Hatcher, Jr., and Ann E. Walker

Explanation:

- Qt — weathered sandy clay T_3 terrace
- Qf — fissure-filling sediment
- Qp — pebble layer
- Osv — Ordovician Sevier Shale saprolite
- red clay-coated fault surface
- Fe-Mn oxide-coated fault surface
- pebbles
- 20/10 strike and dip of surface with trend and plunge of slicken lines
- ⊗ horizontal bedding
- × vertical bedding
- fracture
- fault (certain)
- fault (inferred)
- contact between units (certain)
- contact between units (inferred)
- primary field area boundary

2 m

N

Pit 1
Trench 1
Trench 2
A
A'

35.97342° N,
83.44148° W

35.97342° N,
83.44094° W

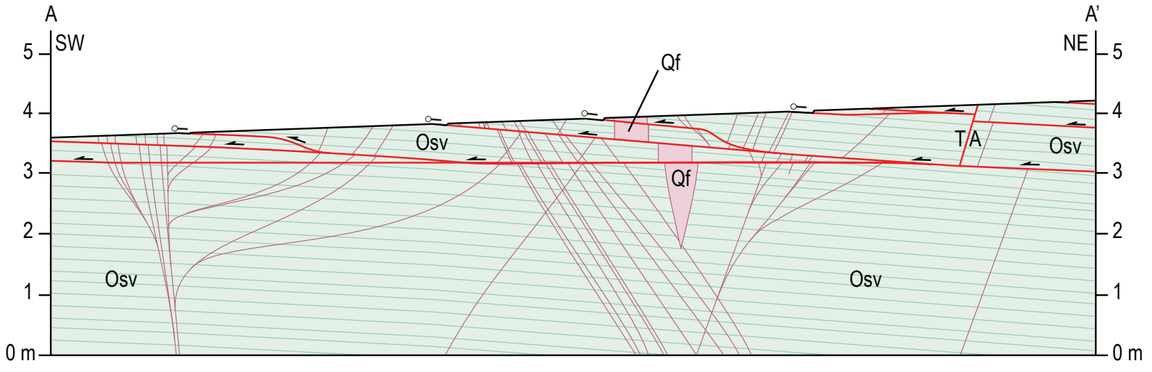
Cross Section A-A'

by
Kathleen F. Warrell

Explanation:

- A — motion away from observer
- T — motion toward observer
- Qf — fissure-filling alluvium
- Osv — Sevier Shale
- thrust fault
- fracture
- shale bedding
- dip of fault

2 m





◀ Northeast wall of a small pit at site DL-6 showing cross section of branching fissure. Note that there is a small, bedding-parallel fault that cuts the fissure with ~1 cm of top-to-the-west displacement ~10 cm from the top of the fissure, similar to the one in the cross section (left). The fissure is truncated at the base by another fault. Ruler is 50 cm long with 10 cm increments. (Photo by J.D. Vaughn.)