



FIGURE 7
TRENCH 3
LOG OF NORTH WALL
T18N,R20E, NW 1/4 SECTION 3
SCALE 1 in. = 5 ft.

- A** A soil horizon—Loamy sand—light gray (10YR 7/2, m). Loose to slightly hard, single grain to massive, non-sticky, non-plastic, in part eolian sand. Graded, smooth boundary to B_{2t}.
- B_{2t}** B_{2t} soil horizon—Clay loam—strong brown (7.5YR 5/6, moist), slightly hard, sticky, plastic 0.5–2" strong subangular blocky, weak 1/2" platy at base with weak angular blocky. Gradual, smooth boundary to B₃.
- B₃** B₃ soil horizon—Loam—light yellowish brown (10YR 6/4), hard, massive, slightly sticky, slightly plastic. Abrupt wavy boundary to Csica.
- Csica** Csica soil horizon—Loamy sand—pale brown (10YR 1/3), hard to very hard, well cemented, massive, 1 inch laminae and coatings on clasts and grains below laminae. Abrupt contact to underlying alluvium.
- 1, 2, 3** Oxided pods—brown-dark brown (7.5YR 4/4), loose, developed in fault zone during faulting.

- 1** 1. Slightly gravelly coarse sand—pale brown (10YR 6/3), moderately sorted, moderately indurated.
- 2** 2. Medium sand—light yellowish brown (10YR 6/4), well sorted, non-indurated.
- 3** 3. Sandy medium-large pebble gravel—pale brown (10YR 6/3), unsorted non-indurated.

Fault descriptions:

Fractures filled with CaCO₃ leached down from Csica soil horizon as soil formed. General trend of main zones = N10W85E to N20W50W, with small offsets of 0.2–2 inches forming small graben. Largest offset = 0.8 feet in Unit 1. Oxided pods of loose alluvium have developed along fractures.

Fault age—Fault is pre-soil, with soil being a durargid, and therefore the fault is pre-Sangamon (early to mid-Pleistocene age).

- Fault, dotted where weathered in soil
- Diffuse soil boundary