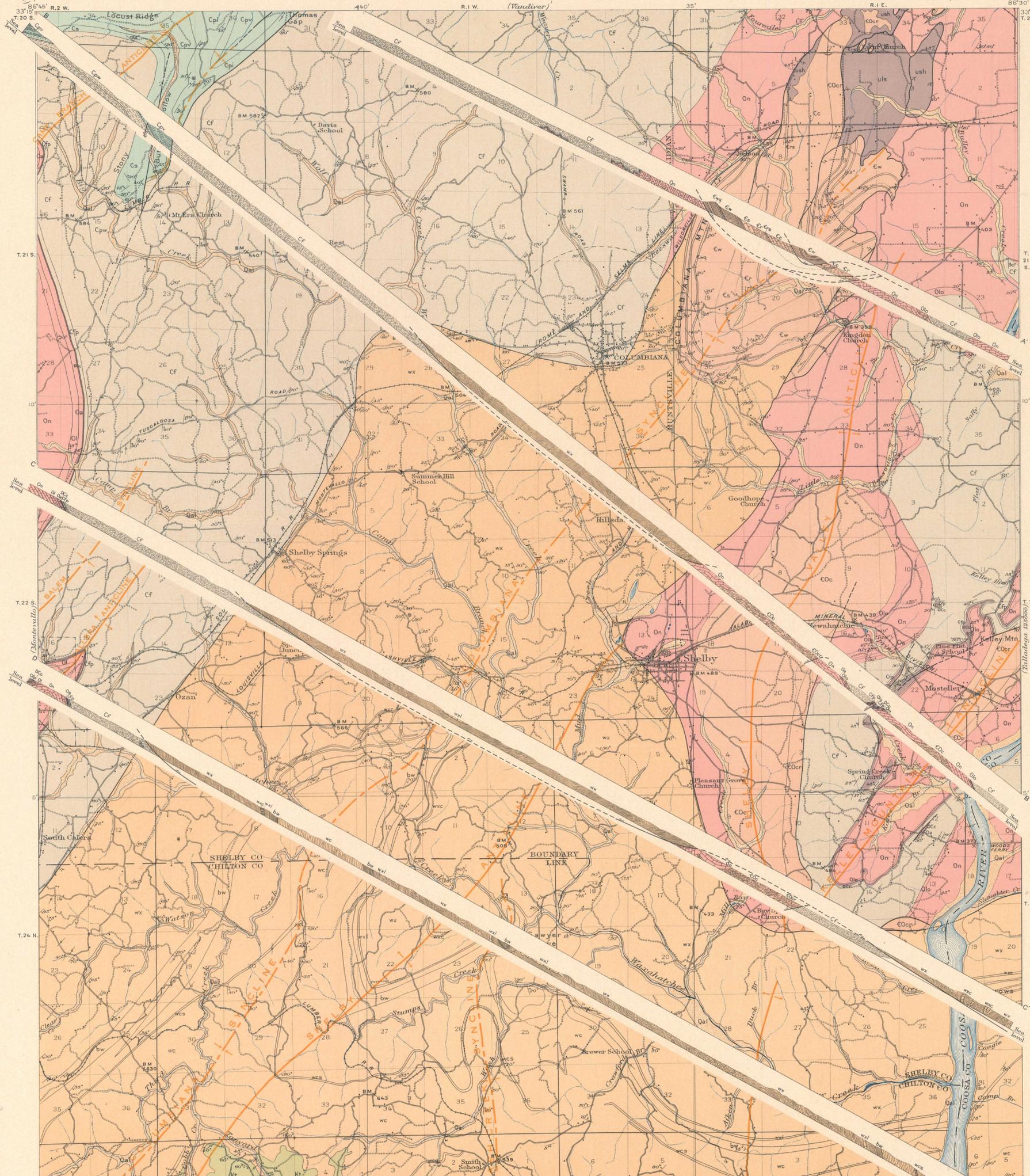


STRUCTURE SECTIONS



**EXPLANATION**  
SEDIMENTARY ROCKS

SHEET SYMBOL SECTION SYMBOL

**Qal**  
Alluvium  
(flood-plain deposits of present systems)

**Kt**  
Tuscaloosa formation  
(varicolored sand, clay, and gravel)  
UNCONFORMITY

**Cpl, Cpv**  
Pottsville formation  
(sandstone, conglomerate, shale, and a coal bed; sandstone members, Shades, C, Pine, CP)

**Cpw**  
Parkwood formation  
(gray shale and sandstone)

**Cf**  
Floyd shale  
(black or gray shale, some gray granular and impure shaly limestone, and much blue-gray and green sandstone)  
UNCONFORMITY

**Cfp, Cfp**  
Fort Payne chert  
(chert and limestone and shale)  
UNCONFORMITY

**DCc, DCc**  
Chattanooga shale and Frog Mountain sandstone  
(Chattanooga shale, black shale of Upper Devonian or Mississippian age, upper formation of Devonian age, and gray sandstone of Chattanooga Middle Devonian age)  
UNCONFORMITY

**Olo, Olo**  
Little Oak limestone  
(thick-bedded argillaceous cherty limestone, with irregular nodular chert layers; weathers to earthy network; late Chazy age)  
UNCONFORMITY

**Oa, Oa**  
Athens shale  
(dark to black calcareous shale with thin limestone layers; late Chazy age)  
UNCONFORMITY

**Ol, Ol**  
Lenoir limestone  
(dark-gray crystalline limestone with a little chert locally; Chazy age, upper conglomerate locally at bottom; in Chazy Valley only, where underlying Mississippian limestone is possibly also present)  
UNCONFORMITY

**On, On**  
Odenville and Newala limestones  
(thick-bedded gray limestone and some dolomite; very pure in upper part; of Beekmantown age)

**EOc, EOc**  
Chepultepec dolomite  
(dolomite with mealy, cavernous fossiliferous chert)

**EOcr, EOcr**  
Copper Ridge dolomite  
(gray crystalline dolomite with much very dark, tough, coniferous chert base; pure limestone may represent pre-Copper Ridge rocks in Tennessee)

**Cc, Cc**  
Conasauga ("Coosa") limestone  
(medium thick-bedded dark fine-grained limestone, some dolomite, and yellowish-green shale)

**Cr, Cr**  
Rome ("Montevallo") formation  
(purple, red, green, and grayish shale, calcareous gray sandstone, and a little limestone; yellowish to purplish sandstone lens, Cr, at top)

**Cs, Cs**  
Shady limestone  
(thick-bedded coarse and fine grained light-gray limestone)

**Cw, Cw**  
Weisner formation  
(dark-gray or greenish shale or slate; quartzitic lenses; few, more or less conglomeratic, and beds of calcareous pebbly iron ore)

**RELATION UNDETERMINED**

**wc, wc**  
Wash Creek slate  
(sericitic slate, weathering green and gray, and black slate, conglomeratic in upper part; contains quartz veins, probably gold-bearing; ferruginous sandstone member, wcs, in lower part; heavy conglomeratic sandstone member, wcl, in upper part)

**bw, bw**  
Brewer phyllite  
(purplish-gray sericitic schist with silky luster and some green schist)

**wsl, wsl**  
Waxahatchee slate  
(bluish sericitic slate, weathering pink, yellowish, and gray; Spenser limestone member, wsl, and conglomeratic sandstone member, wcl, in upper part)

**uls**  
Limestone of unknown age  
(in northeast corner of quadrangle; yields deep-red soil; may be of Ordovician or Cambrian age)

**ush**  
Shale of unknown age  
(yellowish-green shale in northeast corner of quadrangle; may be of Talladega, Weisner, or Conasauga age)

**Known fault**  
**Probable fault**  
**Concealed fault**  
(covered by younger deposits)

**Klippe**  
(erosion remnant of overthrust mass)

**T**  
Overthrust side of thrust fault

**Lo**  
Direction of thrust in overthrust mass

**S**  
Strike and dip of stratified rocks

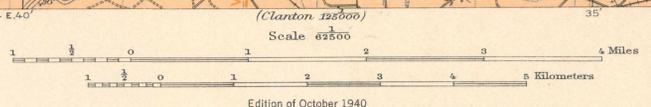
**V**  
Strike of vertical beds

**H**  
Horizontal beds

**Axis of anticline**  
**Axis of syncline**

\* Ozarkian of E. O. Ulrich

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Frank Sutton, Geographer in charge.  
Topography by W.J. Lloyd and F.E. Hale.  
Control by Coast and Geodetic Survey,  
C.B. Kendall, and E.A. Stearns.  
Surveyed in 1909.



Geology by Charles Butts.  
Surveyed in 1908-1910.