

ECONOMIC GEOLOGY

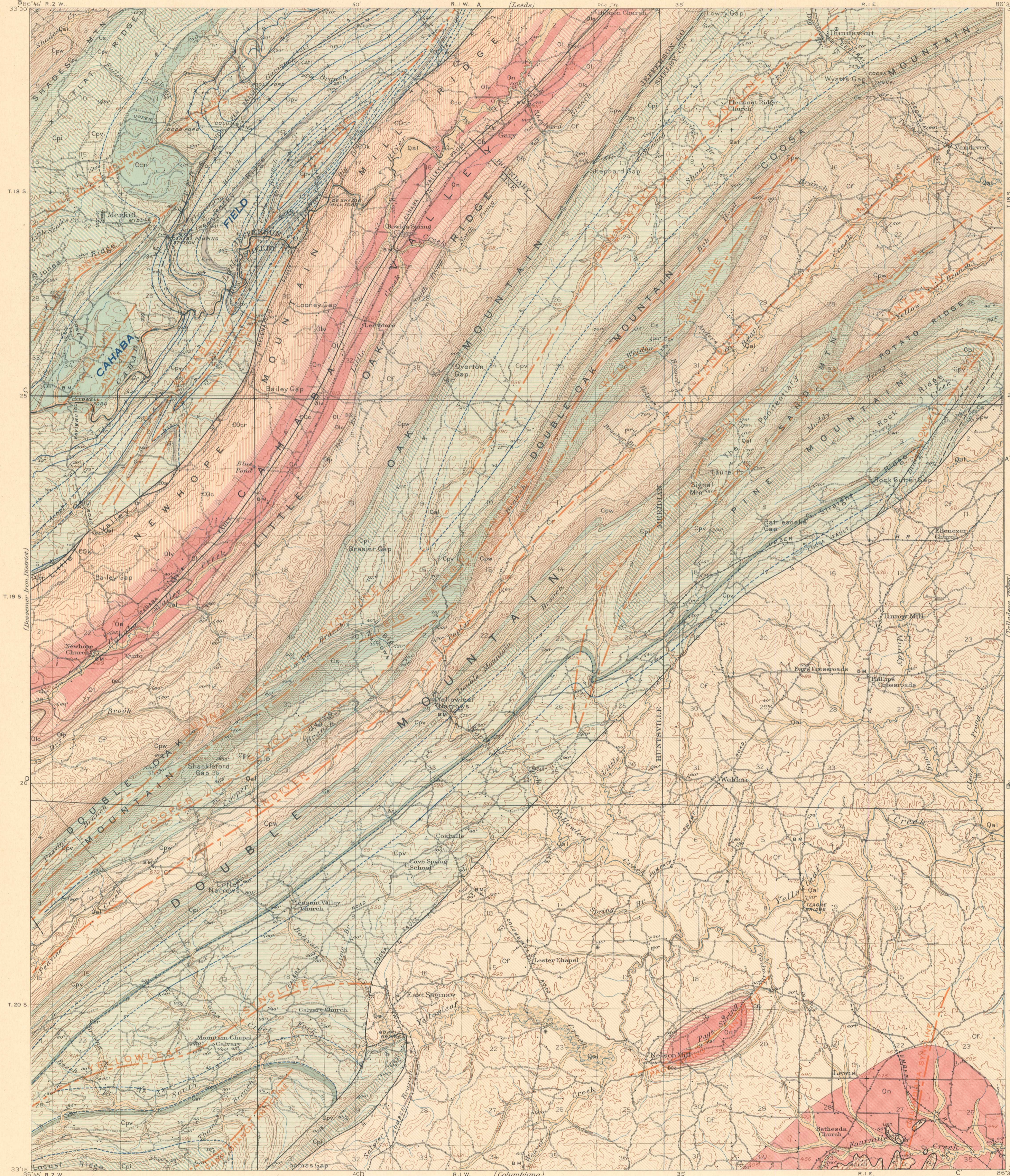
EXPLANATION

SEDIMENTARY ROCKS

- (Areas of ambiguous deposits are shown by patterns of parallel lines; subvertical deposits by patterns of dots and circles)
- QUATERNARY**
- Qal Alluvium (flood-plain deposits of present streams)
- Pennsylvanian**
- Cpca Cahaba field
 - Cpco Coosa field
- Chertifer group**
- Cpw Pottsville formation (sandstone, conglomerate, shale, and coal; Shiloh, Ca. Pine, Chestnut, Rocky Ridge, Wolf Ridge, Cow, and Straight Ridge, etc. sandstone members, and Strawn, Ca. conglomerate member)
 - Cpf Parkwood formation (gray shale and sandstone)
 - Cf Floyd shale (black or gray shale, some gray granular and impure shaly limestone, and much fine-grained gray and green sandstone)
- Mississippian**
- Ctp UNCONFORMITY
 - Ct Fort Payne chert (chert and limestone)
 - DCc UNCONFORMITY
- Upper Devonian to possibly Mississippian**
- On Chattanooga shale and Frog Mountain sandstone (Chattanooga shale, black shale of Upper Devonian of Stone River (lower age, unconformable on Frog Mountain sandstone, soft gray sandstone of Onondaga (Middle Devonian) age; Chattanooga shale absent in places east of Cahaba Valley)
 - Olo UNCONFORMITY
 - Little Oak limestone (lower part thick-bedded and dark; upper part thin-bedded, argillaceous, and contains some chert; of late Chazy age)
 - Oa UNCONFORMITY
 - Athens shale (black fissile shale; of Chazy age)
 - Oi UNCONFORMITY
- Lower and Middle Ordovician**
- On Lenoir and Mosheim limestones (crystalline and thick-bedded dark gray limestone of Stone River (lower Chazy) age; absent in southeast corner)
 - Od Odenville and Newala limestones (mainly pure fine-grained dark-colored brittle limestone and some dolomite; of Beekmantown age)
 - Olv UNCONFORMITY
 - Longview limestone (cherty gray limestone and dolomite; of Beekmantown age)
 - COc UNCONFORMITY
 - Chepultepec dolomite (dolomite with soft cavernous fossiliferous chert)
 - COcr UNCONFORMITY
 - Copper Ridge dolomite (chiefly dolomite with much very tough, angular chert)
 - COk UNCONFORMITY
 - Ketona dolomite (thick-bedded light-gray coarse-grained dolomite of present top)
 - Cr UNCONFORMITY
 - Rome ("Montevallo") formation (purple and green shale with some limestone and sandstone and a persistent bed of calcareous sandstone at top)
 - ush SEQUENCE BROKEN
 - Shale of unknown age (soft grayish shale or disintegrated slate locally varying apparently by members; the Newala limestone, may belong to Tallapoosa, Wetmore, Rome, or Coosa formations)
- Lower Cambrian**
- Known fault
 - Probable fault
 - Concealed fault (covered by younger deposits)
 - T Thrust side of thrust fault
 - U Uphroom side of normal fault
 - D Downthroom side of normal fault
 - 30 Strike and dip of stratified rocks
 - S Strike of vertical beds
 - H Horizontal beds
- UNKNOW AGE**

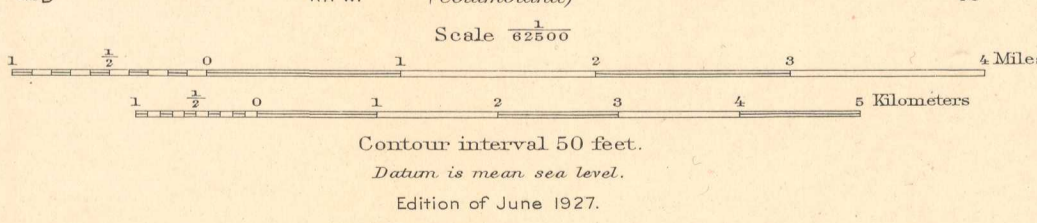
ECONOMIC AND STRUCTURE DATA

- Coal outcrops**
(dashed lines indicate uncertainty as to position or this series of symbols and names of coal beds shown below)
- CAHABA COAL FIELD**
- h Helena
 - t Thompson
 - cl Clark (Little Pittsburgh)
 - F Foughton (Black shales, Coke)
 - B Buck
 - Pump Pump (Alice and Jones)
 - W Wagworth
 - H Hefeweise
 - nu Annually, Upper
 - Nu Annually, Middle
 - nl Annually, Lower
 - G Gould
- COOSA COAL FIELD**
- m Martin
 - sr Straight Ridge
 - n Niens
 - C Coningham
 - hd Howard
- Coal mines**
- A abandoned
 - X Coal prospects and country banks
- LIST OF MINES**
1. Overton No. 1
 2. Overton No. 2
 3. Waterworks mine (abandoned)
 4. Waterworks mine
 5. Blue Jay
- * Ozarkian of E. O. Ulrich



H.M. Wilson, Geographer
Van H. Manning, in charge of section.
Topography by W.M. Beaman, R.H. Reineck, and C.C. Gardner.
Control by Coast and Geodetic Survey and C.B. Kendall.
Surveyed in 1906.

APPROXIMATE MEAN
EQUINOXIAL TIME



Geology by Charles Butts, assisted by
C.W. Washburne, and William F. Prouty
Surveyed in 1906-1910.

Axes of anticlines and synclines

Limestone
(Newala limestone extensively quarried in Cahaba Valley)