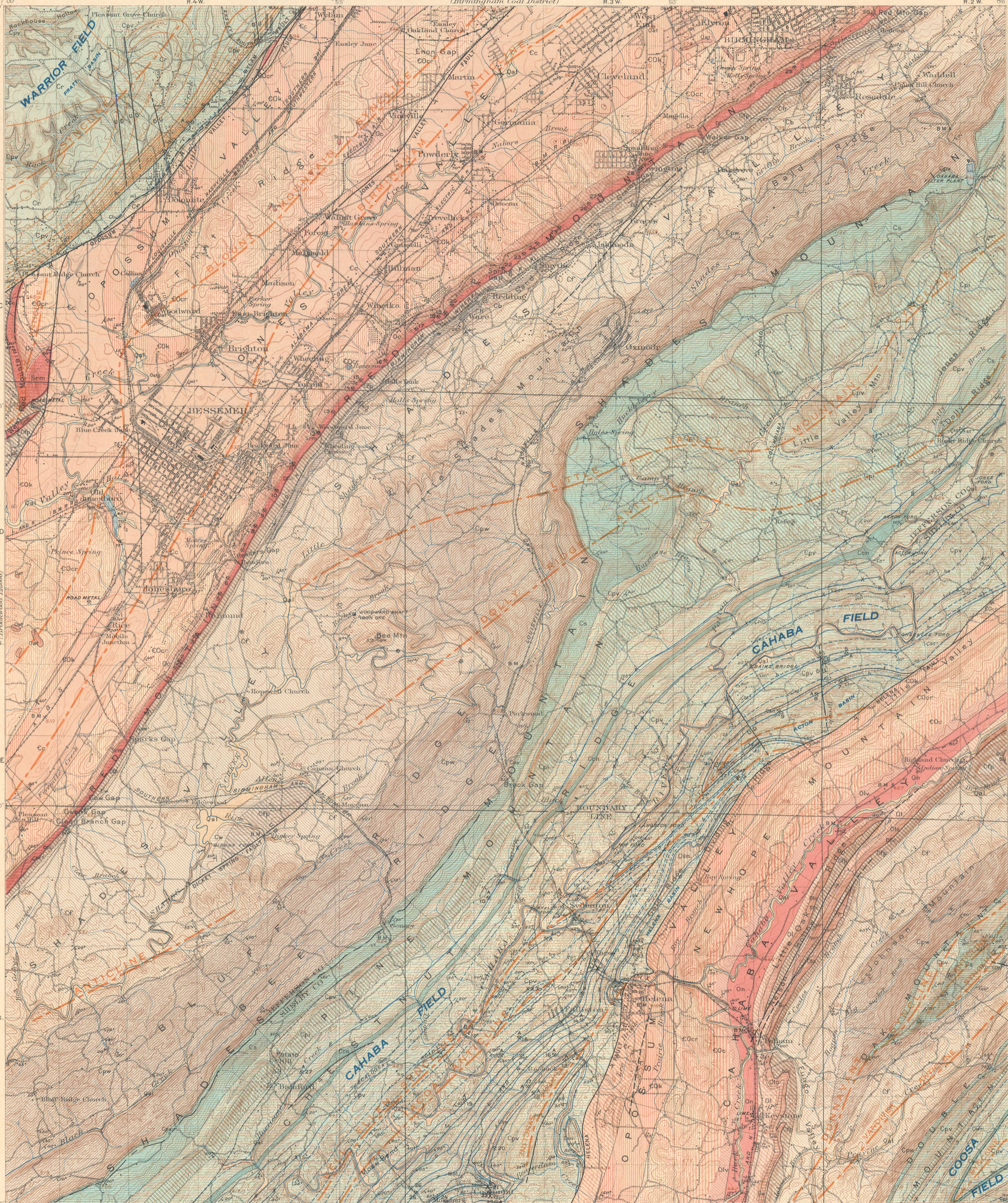


	Quaternary Alluvium (flood-plain deposits of present streams)
	Pennsylvanian Pottsville formation (sandstone, conglomerate, shale, and coal beds; Bayles Cr., Hazburg Cr., Shades Cr., Pine Cr., Chatmtn Cr., Wolf Ridge Cr.; and Straight Ridge Cr.; sandstone members and Straven, Cn, conglomerate member)
	Parkwood formation (gray shale and sandstone; absent west of Shades Valley)
	Chert group Floyd shale, upper part (black or gray shale, shaly limestone, and sandstone)
	Chert group Bangor limestone (restricted) (mainly light bluish-gray thin-bedded crystalline fossiliferous limestone and thin shale layers and partings)
	Mississippian Hartelle sandstone (restricted) (thick-bedded coarse sandstone, generally hard but locally friable)
	Gasper formation (dark shale with thin sandy layers in upper part in places)
	UNCONFORMITY Warsaw limestone (thick-bedded coarse gray or bluish fossiliferous limestone; absent east of Cahaba Valley)
	UNCONFORMITY Fort Payne chert (chert and limestone)
	UNCONFORMITY Chattanooga shale and Frog Mountain sandstone (Chattanooga shale, black shale of Upper Devonian or early Carboniferous age, unconformable on Frog Mountain sandstone and soft gray sandstone of Onondaga and Oriskany (Middle and Lower Devonian) age; both, and Straight Red Mountain; Chattanooga shale absent in places east of Cahaba Valley)
	UNCONFORMITY Red Mountain formation (sandstone, shale, and hematite iron ore beds of late Medina and Clinton age)
	UNCONFORMITY Little Oak limestone (lower part thick-bedded and dark; upper part thin-bedded, crystalline, and contains some shales of late Chazy age)
	UNCONFORMITY Athens shale (black fissile shale; of Chazy age)
	UNCONFORMITY Chickamauga limestone (thick and thin bedded dark and light gray limestone; upper part of Trenton and Black River (shaly limestone) age; lower part of Stones River (lower Chazy) age; beds of upper Chazy age (Little Oak and Athens) not present; Atlanta chert conglomerate member, Out. at base, in places, unconformable on Copper Ridge dolomite)
	UNCONFORMITY Lenoir and Mosheim limestones (crystalline and thin-bedded dark-gray limestone of Stones River (lower Chazy) age)
	UNCONFORMITY Odenville and Newala limestones (massive gray fine-grained thin-bedded crystalline limestone and some dolomite; of Beekmantown age)
	UNCONFORMITY Longview limestone (shaly gray limestone and dolomite; of Beekmantown age)
	UNCONFORMITY Chepultepec dolomite (dolomite with soft cavernous fossiliferous chert)
	UNCONFORMITY Copper Ridge dolomite (chiefly dolomite with much very tough, angular chert)
	UNCONFORMITY Ketona dolomite (thick-bedded light-gray coarse-grained dolomite of great purity)
	UNCONFORMITY Conasauga ("Coosa") limestone (thick-bedded dark-fine-grained limestone and yellowish-green shale)
	UNCONFORMITY Rome ("Montevallo") formation (purple and green shale with some limestone and sandstone and a persistent bed of calcareous sandstone at top)

	Known fault
	Probable fault
	Concealed fault (covered by younger deposits)
	Thrust side of thrust fault
	Upstream side of normal fault
	Downstream side of normal fault
	Strike and dip of stratified rocks
	Strike of vertical beds
	Horizontal beds

* Includes Clear Branch sandstone, of Oriskany (Lower Devonian) age, on Red Mountain; Frog Mountain sandstone has recently been restricted to beds of Onondaga (Middle Devonian) age.
† Ozarkian of E. O. Ulrich.



H. M. Wilson, Geographer.
H. B. Blair, in charge of section.
Topography by H. B. Blair, Assistants, R. L. Harrison and Carroll Caldwell.
Control by C. B. Kendall.
Surveyed in 1905.

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

	Axes of anticlines and synclines
	Structure contours on top of Pratt coal (contour interval 100 feet; datum, mean sea level)
	Coal and iron mines and quarries A, abandoned
	Coal prospects and country banks
	WARRIOR COAL FIELD pr, Pratt ml, Mary Lee
	COOSA COAL FIELD sr, Straight Ridge nr, Nivens
	CAHABA COAL FIELD h, Helena t, Thompson g, Gholson y, Youngblood (Black shale, Coke) s, Clark (Little Pittsburgh) b, Buck p, Pumps (Alice and Jones) w, Wet Bone (Coke Oven) w, Wadsworth hb, Harbans nu, Nunnally, Upper nm, Nunnally, Middle nl, Nunnally, Lower g, Gould
	Coal outcrops (dashed lines indicate uncertainty as to position or thickness of beds; symbols and names of coal beds shown at left)
	Iron ore (Red Mountain formation contains workable beds of hematite)
	Limestone (Newala limestone extensively quarried in Cahaba Valley)

Scale 1:25,000
Contour interval 20 feet.
Datum is mean sea level.

Diagram of Township
6 5 4 3 2 1
7 8 9 10 11 12
13 14 15 16 17 18 19 20 21 22 23 24
25 26 27 28 29 30 31 32 33 34 35 36

Edition of June 1927