

QUATERNARY

Alluvium
(flood-plain deposits of present streams)

Pottsville formation
(sandstone, conglomerate, shale, and coal beds; *Boylston, Brierley, Shades, Co., Pine, C. J., Chestnut, Co. Wolf Ridge, Co., and Straight Ridge, Co.* sandstone members, and *Strawn, Co.* conglomerate member)

Parkwood formation
(gray shale and sandstone; absent west of Shades Valley)

NORTH PART OF SHADES VALLEY

Floyd shale, upper part
(black or gray shale, shaly limestone, and sandstone)

Bangor limestone (restricted)
(mainly light bluish-gray thick-bedded crystalline limestone; *Shades, Co.* and *Shades Valley* and parts)

SOUTH PART OF SHADES VALLEY

Floyd shale
(black or gray shale, some gray granular limestone, and much stratified gray and green sandstone)

Hartselle sandstone (restricted)
(thick-bedded coarse sandstone, generally hard but locally friable)

Gasper formation
(dark shale with thin sandy layers in part in places)

Warsaw limestone
(thick-bedded coarse gray or bluish fossiliferous limestone; absent east of Cahaba Valley)

Fort Payne chert
(chert and limestone)

Chatanooga shale and Frog Mountain sandstone
(*Chatanooga shale*, black shale of Upper Devonian or early Carboniferous age, unconformable on Frog Mountain sandstone, and gray sandstone of Onondaga and Oriskany (Middle and Lower Devonian) age; both absent west of Red Mountain; *Chatanooga shale* absent in places east of Cahaba Valley)

Red Mountain formation
(sandstone, shale, and hematite iron ore beds of late Middle and Chazy age)

SOUTHEAST OF CAHABA FIELD

Little Oak limestone
(lower part thick-bedded and dark; upper part thin-bedded, argillaceous, and contains some chert; of late Chazy age)

Athens shale
(black shale; of Chazy age)

NORTHWEST OF CAHABA FIELD

Chickamauga limestone
(thick and thin bedded dark and light gray limestone; upper part of Trenton and Black River (shaly Lower Devonian) age; lower part of Stones River (lower Chazy) age; beds of upper Chazy age (Little Oak and Athens) not present; Athens chert conglomerate member not in place, unconformable on Copper Ridge dolomite)

Lenoir and Moheim limestones
(crystalline and gray limestone of Trenton and Black River (shaly Lower Devonian) age; lower part of Stones River (lower Chazy) age)

Odenville and Newala limestones
(mainly pure fine-grained dark-colored crystalline limestone and some dolomite of Beekmantown age)

Longview limestone
(cherty gray limestone and dolomite; of Beekmantown age)

Chepultepec dolomite
(dolomite with soft cavernous fossiliferous chert)

Copper Ridge dolomite
(cherty dolomite; very tough, angular chert)

Ketona dolomite
(thick-bedded light-gray coarse-grained dolomite of great purity)

Conasauga ("Coosa") limestone
(thick-bedded dark fine-grained limestone and yellowish-green shale)

Rome ("Montevallo") formation
(purple and green shale with some limestone and sandstone and a persistent bed of calcareous sandstone at top)

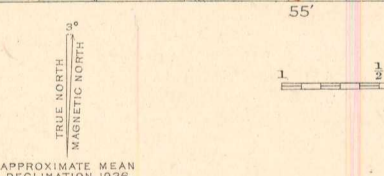
Known fault
Probable fault
Concealed fault
(covered by younger deposits)

Thrust side of thrust fault
Uplifted side of normal fault
Downthrown side of normal fault
Strike and dip of stratified rocks
Strike of vertical beds
Horizontal beds

Axes of anticlines and synclines

*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

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