

QUATERNARY	Qal	Alluvium. Unconsolidated quartz silt, sand, and gravel containing clasts of local bedrock. Mapped only along larger streams.	
	LOWER PENNSYLVANIAN	Ppvu	Pottsville Formation, upper part. Dark-gray silty shale and interbeds of coal and underclay; contains intervals of light- to medium-gray lithic sandstone and variably colored polymictic conglomerate.
		Ppv	Pottsville Formation undifferentiated. Dark-gray silty shale containing intervals of light- to medium-gray lithic sandstone and interbeds of coal and underclay; predominantly dark-gray shale between lower quartzose sandstone members. Includes intervals of grayish-red shale in the Coosa synclinorium.
		Ppvsr	Straight Ridge Sandstone Member. Lithic sandstone weathered grayish red and grayish orange brown.
		Ppvwr	Wolf Ridge Sandstone Member. Very light gray quartzose sandstone.
		Ppvp	Pine Sandstone Member. Very light gray quartzose sandstone containing scattered quartz pebbles and quartz pebble conglomerate; wavy-bedded sandstone and mudstone common near top. Includes a middle interval of shale.
Ppvs	Shades Sandstone Member. Very light gray quartzose sandstone containing scattered quartz pebbles and quartz pebble conglomerate. Includes a middle interval of dark-gray shale.		
UPPER MISSISSIPPIAN	PMpw	Parkwood Formation. Medium- to dark-gray shale containing intervals of light- to medium-gray lithic sandstone.	
	Mf	Floyd Shale. Dark-gray to black shale containing siderite nodules; locally containing very minor sandstone.	
LOWER TO UPPER MISSISSIPPIAN	Mfp	Fort Payne Chert. Grayish-orange, bedded fossiliferous chert.	
	Dfm	Frog Mountain Sandstone. Variably colored clay and claystone containing interbeds of light-grayish-brown sandstone.	

MIDDLE ORDOVICIAN	Oa	Athens Shale. Interbedded dark-gray limy shale and very dark gray micritic limestone; weathers to graptolite-bearing shale.	
	Ol	Lenoir Limestone. Dark-gray partly fossiliferous stylonodular limestone locally containing chert nodules; medium- to dark-gray fenestral limestone at base (Mosheim Limestone Member).	
LOWER ORDOVICIAN	Knox Group	Oo	Odenville Limestone. Dark-gray mottled dolomitic limestone overlain by dark-gray fossiliferous stylonodular limestone.
		On	Newala Limestone. Light- to medium-bluish-gray chert-free micritic limestone containing minor interbeds of light- to light-bluish-gray dolomite and medium- to dark-gray mottled dolomitic limestone.
		Olv	Longview Limestone. Interbedded light-medium-gray micritic and partly sandy limestone and light-gray dolomite; commonly contains thin interbeds and nodules of chert.
		Och	Chepultepec Dolomite. Light- to dark-gray dolomite containing intervals of interbedded light- to medium-bluish-gray limestone; produces abundant predominantly cavernous chert.
		Ocr	Copper Ridge Dolomite. Light- to medium-gray dolomite producing abundant predominantly dense chert containing common algal laminations.
		UPPER CAMBRIAN	Cb
MIDDLE TO LOWER CAMBRIAN?	Ck	Ketona Dolomite. Light- to dark-gray chert-free dolomite.	
	Cbf	Brierfield Dolomite. Medium- to medium-dark-gray dolomite; produces cavernous and mealy chert.	
	Cc	Conasauga Formation. Medium- to dark-gray limestone and dolomite containing interbedded olive-gray shale.	
LOWER CAMBRIAN	Cr	Rome Formation. Grayish-red-purple and grayish-olive mudstone, shale, and siltstone containing interbedded sandstone, dolomite, and limestone; persistent interval of light-gray and grayish-red-purple to grayish-orange sandstone at top.	

EXPLANATION

SYMBOLS FOR GEOLOGIC MAP

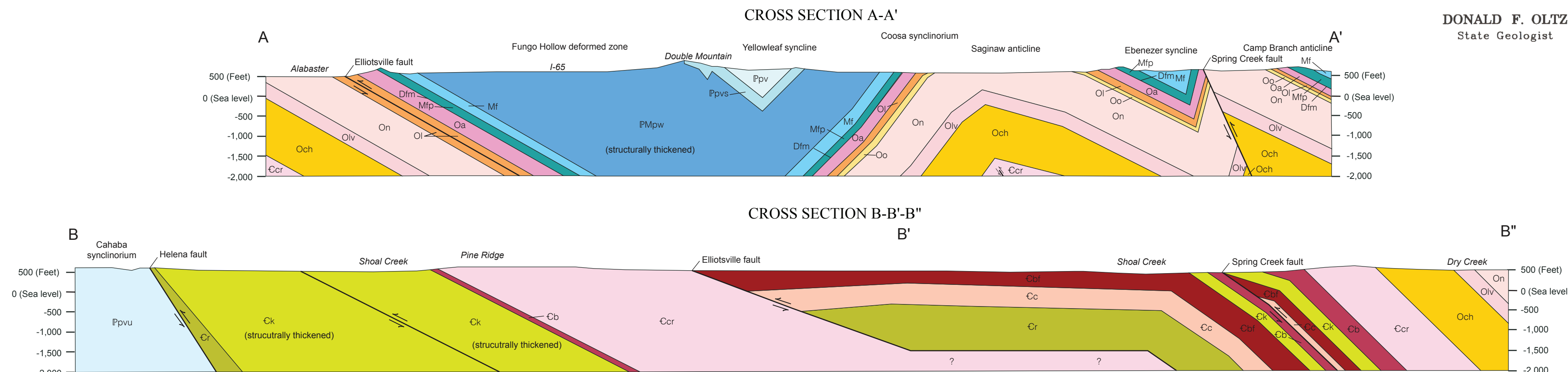
- X--- Contact, approximately located, showing location of control point (contact exposed or closely located)
- Contact, located very approximately
- Contact, concealed beneath mapped units
- ▲--- Thrust fault, approximately located, sawteeth on upper plate
- ▲---▲--- Thrust fault, located very approximately, sawteeth on upper plate
- ▲---▲---▲--- Thrust fault, concealed beneath mapped units, sawteeth on upper plate
- Fault type unknown, approximately located, D on downthrown side
- 45--- Strike and dip of beds
- +--- Vertical beds
- 45--- Strike and dip of overturned beds
- ▲--- Anticline, showing trace and direction of plunge
- ▲--- Syncline, showing trace and direction of plunge
- ▲--- Overturned syncline, showing trace and direction of plunge

SYMBOLS FOR CROSS SECTION A-A' AND B-B'-B''

- Stratigraphic contact
- Thrust fault, showing relative movement



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CROSS SECTIONS A-A' AND B-B'-B'' WITH EXPLANATIONS FOR THE GEOLOGIC MAP AND CROSS SECTIONS, ALABASTER 7.5-MINUTE QUADRANGLE, SHELBY COUNTY, ALABAMA

by
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