

EXPLANATION FOR GEOLOGIC MAP AND CROSS SECTION

SYMBOLS FOR GEOLOGIC MAP

UPPER MISSISSIPPIAN AND LOWER PENNSYLVANIAN	POTTSVILLE FORMATION	Qal	Alluvium. Unconsolidated quartz silt, sand, and gravel containing clasts of local bedrock; mapped only along larger streams.
		IPpv	Pottsville Formation undifferentiated. Dark-gray silty shale containing intervals of light- to medium-bluish-gray to greenish-gray lithic sandstone and minor interbeds of coal, underclay, and grayish-red mudstone; predominantly dark-gray shale between Shades and Pine Sandstone Members.
		IPpvar	Straight Ridge Sandstone Member. Light-brownish-gray to grayish-orange, predominantly quartzose sandstone weathering reddish-orange; siltstone and shale increase near upper contact.
		IPpwr	Wolf Ridge Sandstone Member. White to very pale orange, predominantly quartzose sandstone containing rare quartz pebbles; grades upward to laminated sandstone with increasing amounts of shale.
		IPpvp	Pine Sandstone Member. Very light gray quartzose sandstone containing scattered rounded subequant quartz pebbles and quartz pebble conglomerate; wavy bedded sandstone and mudstone common near top.
		IPpvs	Shades Sandstone Member. Very light gray quartzose sandstone containing scattered rounded subequant quartz pebbles and quartz pebble conglomerate; base conglomeratic, including wood and sideritic claystone and quartzose pebbles; middle interval of dark-gray shale.
		IPpvi	Pottsville Formation, lower part. Very light gray quartzose sandstone containing scattered rounded subequant quartz pebbles and quartz pebble conglomerate.
		IPmpw	Parkwood Formation. Medium- to dark-gray shale containing intervals of light- to medium-bluish-gray to greenish-gray lithic sandstone.
		IPmpwf	Parkwood Formation and Floyd Shale undifferentiated. See individual descriptions.
		MISSISSIPPIAN	Mf
Mfp	Fort Payne Chert. Grayish-orange bedded fossiliferous chert.		
DEVONIAN	Dfm	Frog Mountain Sandstone. Moderate-yellowish-brown slightly feldspathic sandstone.	

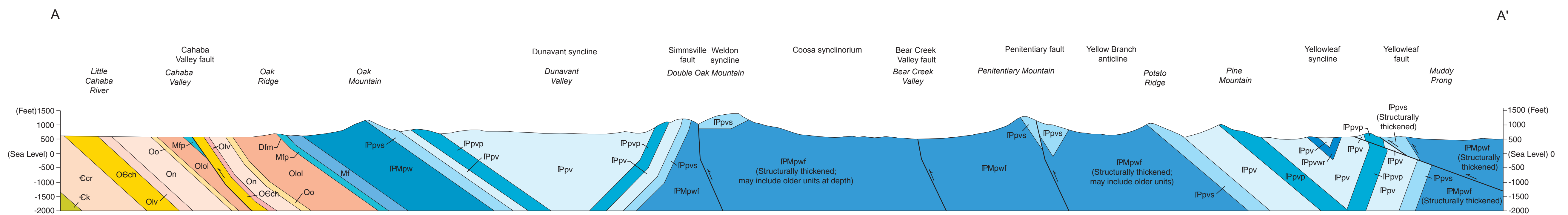
MIDDLE ORDOVICIAN	Ool	Little Oak and Lenoir Limestones undifferentiated. Dark-gray partly fossiliferous stylonodular limestone locally containing chert nodules; medium- to dark-gray fenestral limestone at base (Mosheim Limestone Member of Lenoir Limestone); upper part relatively argillaceous, bioturbated, and fossiliferous (Little Oak Limestone).
	Oo	Odenville Limestone. Dark-gray bioturbated dolomitic limestone overlain by dark-gray fossiliferous stylonodular limestone, locally containing chert nodules.
LOWER ORDOVICIAN	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 bioturbated dolomitic limestone.
	Olv	Longview Limestone. Interbedded light-medium-gray micritic and partly sandy limestone to light-gray dolomite; commonly contains thin interbeds and nodules of chert.
	OCch	Chepultepec Dolomite. Light- to dark-gray dolomite containing intervals of interbedded light- to medium-bluish-gray limestone and minor shaly limestone; residuum includes abundant predominantly cavernous chert.
UPPER CAMBRIAN	Cr	Copper Ridge Dolomite. Light- to medium-gray dolomite; residuum includes abundant predominantly dense chert containing common stromatolites.
	ck	Ketona Dolomite. Light- to dark-gray chert-free dolomite (in subsurface only).

- Contact, closely located
- * - - - Contact, approximately located, showing location of control point (contact exposed or closely located)
- - - - - Contact, very approximately located
- Contact or fault, concealed beneath mapped units
- - - - - Thrust fault, located very approximately, sawteeth on upper plate
- - - - - Normal fault, located very approximately, U and D, respectively, on upthrown and downthrown sides
- 45 Strike and dip of beds
- ⊕ Horizontal beds
- + Strike of vertical beds
- 75 Strike and dip of overturned beds
- ↗ Anticline, showing trace and direction of plunge
- ↘ Syncline, showing trace and direction of plunge

SYMBOLS FOR CROSS SECTION A-A'

- Stratigraphic contact
- ↔ Thrust fault, showing relative movement

CROSS SECTION A-A'



Scale 1:24,000
No vertical exaggeration

CROSS SECTION A-A' AND EXPLANATION FOR THE GEOLOGIC MAP AND CROSS SECTION OF THE VANDIVER 7.5-MINUTE QUADRANGLE, SHELBY AND JEFFERSON COUNTIES, ALABAMA

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