

COLUMNAR SECTIONS

GENERALIZED SECTION FOR THE ACCIDENT AND GRANTSVILLE QUADRANGLES. SCALE: 1 INCH = 500 FEET.							
SYSTEM	SERIES	FORMATION NAME	SYMBOL	COLUMNAR SECTION	THICKNESS IN FEET	CHARACTER OF ROCKS	
C A R B O N I F E R O U S	PERMIAN	Washington formation (of the Dunkard group).	(Cd)		180	Shale with thin sandstones, local fresh-water limestones, and several small coal beds.	
		Monongahela formation.	Cm		240-270	Shale with a few sandstone beds, several fresh-water limestones, and six coal beds.	
	PENNSYLVANIAN	CONFORMABLE	Conemaugh formation.	Ccm		570-635	Shale and sandstone, the latter in places conglomeratic; several limestones (fresh-water in the upper part of the formation and marine in the lower part) and many thin coal beds.
			Allegheny formation.	Ca		260-350±	Shale and sandstone with several coal beds.
			Pottsville formation.	Cpv		325-375	Sandstone and conglomerate with some shale, coal, and fire clay.
		UNCONFORMITY					
	MISSISSIPPIAN	CONFORMABLE	Mauch Chunk formation.	Cmc		650	Red and green shale with some sandstone.
			Greenbrier limestone.	Cgr		225	Massive limestone at top; red and green shales with thin limestones in middle; calcareous cross-bedded sandstone (Loyalhanna or "Siliceous" limestone) at base.
			Pocono sandstone.	Cpo		450	Sandstone and conglomerate, with some gray shale, especially near base.
			Catskill formation.	Dck		1200-2200	Red and green shale and sandstone.
DEVONIAN	CONFORMABLE	Jennings formation.	Dj		3500±	Olive-green to brownish-red shale and sandstone, with two thin conglomerates; approximately equivalent to the Chemung formation. Olive-green to gray shale alternating with thin fine-grained micaceous sandstones. Probably not exposed at the surface in these quadrangles. Black fissile shale, representative of the Genesee shale. Not exposed in these quadrangles.	

DETAILED SECTION OF THE COAL-BEARING ROCKS OF THE ACCIDENT AND GRANTSVILLE QUADRANGLES. SCALE: 1 INCH = 100 FEET.				
FORMATION	NAMES OF MEMBERS	COLUMNAR SECTION	THICKNESS IN FEET	CHARACTER OF ROCKS
WASHINGTON	Washington coal.		3½	Usually not opened or exposed.
	Waynesburg "A" coal.		1½	Thin and not well known.
MONONGAHELA	Waynesburg coal.		2-6	Persistent and important.
	Waynesburg limestone.		5½	Fresh-water fauna.
	Uniontown coal.		1	Generally thin.
	Sewickley sandstone.		15	
	Upper Sewickley coal.		5½	Gas coal; important.
	Lower Sewickley coal.		2½	Sometimes mined.
	Fishpot limestone. Redstone coal. Pittsburg coal.		5½ 3-7 9-15	Fresh-water fauna. Persistent, but variable and not mined. Very persistent; most important coal of region.
CONEMAUGH	Little Pittsburg coal. Pittsburg limestone (lower).		2-4 3	Thin and variable.
	Connellsville sandstone.		50	Massive and persistent.
	Franklin coal. Clarksburg limestone.		4-9 6-14	Persistent but variable. Not often mined. Fresh-water fauna; very persistent.
	Morgantown sandstone.		20-30	Massive; locally conglomeratic.
	Elklick coal.		¼-2	Thin and variable.
	Ames limestone. Harlem coal.		2 2	Marine fauna; very characteristic. Thin but regular.
	Maynardier coal.		2-3	Restricted to Castleman Valley.
	Saltsburg sandstone.		30	Massive and regular.
	Bakerstown coal. Grantville coal.		2-4 2-5	Variable in thickness but persistent; mined at many places. Restricted to Castleman Valley. Red shale.
	Upper Cambridge limestone. Buffalo sandstone. Lower Cambridge limestone. Brush Creek coal.		1 10-40 1-3 2	Marine fauna. Massive. Marine fauna. Thin but regular and persistent.
	Mahoning sandstone (upper part).		0-30	Massive but variable in thickness.
	Mahoning coal.		2	Usually thin and variable.
	Mahoning sandstone (lower part).		25-30	Massive and persistent.
	Upper Freeport coal. Bolivar fire clay.		2-5 4	Very regular and persistent. Flint clay. Limestone occupies this position at some places.
	Roaring Creek sandstone. Lower Freeport coal. Lower Freeport sandstone.		20-30 1-6 25	Massive; locally conglomeratic. Variable; absent in some places. Massive but variable.
ALLEGHENY	Upper Kittanning coal.		1-3	Variable and of local occurrence.
	Lower and Middle Kittanning coals.		4-6	Persistent and regular.
	Split-six coal. Vanport limestone.		2-5 3	Variable. Marine fauna in places; fresh-water elsewhere.
	Clarion sandstone. Clarion coal. Brookville coal.		25-70 2½ 1-4	Very massive; conglomeratic in many places. Persistent but not valuable. Irregular and of local occurrence.
	POTTSVILLE	Homewood sandstone.		30-100
Mount Savage coal. Mount Savage fire clay.			2-4 5-12	Persistent but irregular. Flint and plastic clays.
Connoquenessing sandstone (upper part).			75	Massive and conglomeratic.
Quakertown coal.			1	Thin and irregular.
Connoquenessing sandstone (lower part).			75	Massive and conglomeratic.
Sharon coal.		1-2	Thin and irregular.	