

ASHLAND

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

COMPOSITE STRATIGRAPHIC SECTION

SYSTEM	SERIES	GROUP, FORMATION MEMBER, AND BED	LITHOLOGY	THICKNESS OF COAL BED, IN INCHES	THICKNESS, IN FEET	DESCRIPTION (All coal is anthracite)				
QUATERNARY		Little Tracy (No. 17) coal bed		12-36	270+	Alluvium: unconsolidated clay, silt, sand, gravel, and cobbles.				
PENNSYLVANIAN	Middle and Upper Pennsylvanian	Tracy (No. 16) coal bed		9-100		Chiefly sandstone, siltstone, shale, and coal: medium-gray, light-olive-gray, yellowish-brown sandstone, siltstone, and shale prevalent above Holmes coal bed; medium- to dark-gray conglomeratic sandstone, sandstone, siltstone, and shale predominate below Holmes coal bed. Several local coal beds and splits of coal beds not shown.				
		Little Diamond (No. 15) coal bed		11-72						
		Diamond (No. 14) coal bed		42-181	390-575					
		Little Orchard (No. 13) coal bed		32-146						
		Orchard (No. 12) coal bed		12-180						
		Primrose (No. 11) coal bed		30-222	225-320					
		Rough (No. 10 1/2) coal bed		0-73						
		Holmes (No. 10) coal bed		20-336						
		Four-foot (No. 9 1/2) coal bed		10-196						
		Mammoth Top Split (No. 9) coal bed		24-175	80-200					
		Mammoth Bottom Split (No. 8) coal bed		36-292						
		Skidmore (No. 7) coal bed		8-167	180-315					
		Seven-foot (No. 6) coal bed		17-132						
		Buck Mountain (No. 5) coal bed		19-299						
		PENNSYLVANIAN	Lower Pennsylvanian	Little Buck Mountain (No. 4) coal bed			0-98	100-160	Chiefly conglomerate and sandstone: medium- to dark-gray conglomeratic sandstone, sandstone, and shale; massive, light- to medium-gray, quartz-pebble conglomerate at base. Little Buck Mountain coal bed present in eastern part of area.	
Coal C				0-31	240-360	Chiefly conglomerate and sandstone: light- to medium-gray, quartz granule and pebble conglomerate; medium- to dark-gray conglomeratic sandstone, sandstone, siltstone, and shale; thin, discontinuous coal C in middle part.				
Lykens Valley No. 4 coal bed				6-114	265-450	Chiefly conglomerate, sandstone, and shale: medium-gray to olive-gray and yellowish-brown, pebble and cobble conglomerate with cobbles as much as 5 inches in diameter; similarly colored sandstone, siltstone, and shale; medium- to dark-gray and brownish-gray siltstone and shale. Lykens Valley No. 4 coal bed at top.				
MISSISSIPPIAN AND PENNSYLVANIAN	Upper Mississippian and Lower Pennsylvanian	Upper member			275-500	Transitional sequence comprised of brownish-gray to grayish-red sandstone, siltstone, and shale characteristic of the underlying Mauch Chunk Formation alternating with medium-dark-gray, brownish-gray, and olive-gray conglomerate, sandstone, siltstone, and shale characteristic of the overlying Pottsville Formation.				
		Upper Mississippian	Mauch Chunk Formation	Middle member		2000-3500	Sandstone, siltstone, mudstone, and shale: thin- to medium-bedded, very fine to medium grained, grayish-red and reddish-brown sandstone interbedded with similarly colored siltstone, mudstone, and shale; in some mappable units sandstone predominates, in others siltstone and shale predominate (see map); laminae and very thin beds of green and grayish-green mudrock are common; commonly cross laminated and crossbedded; mudcracks, ripple marks, and raindrop impressions locally abundant. Mostly concealed in northern part of area.			
				Lower member		300-500	Sandstone, siltstone, and shale: one or more units of yellowish-brown to olive-gray sandstone, siltstone, and shale ranging from 10 to 50 feet in thickness, separated by thicker units of grayish-red to reddish-brown sandstone, siltstone, and shale. Lower member well defined south and west of map area.			
		MISSISSIPPIAN	Lower Mississippian	Pocono Formation			575-850	Chiefly sandstone: thin- to medium-bedded, very light to medium dark gray, medium- to coarse-grained; interbedded with similarly colored conglomeratic sandstone, siltstone, and shale.		
				Upper Devonian and Lower Mississippian	Susquehanna Group	Spechtly Kopf Member		20-60	200-600	20-60 Conglomerate: medium-bedded to massive, light-gray to yellowish-brown, quartz-pebble conglomerate. Unconformity at base.
						Buddys Run Member			4000+	Sandstone, siltstone, mudstone, and shale: thin- to medium-bedded, pale-brown and grayish-red, very fine to fine grained sandstone; interbedded with similarly colored siltstone, mudrock, and shale; scattered thin units of dusky-yellow and light-olive-gray sandstone, siltstone, and shale. Poorly exposed. Lower part of member not shown.
		DEVONIAN AND MISSISSIPPIAN	Upper Devonian and Lower Mississippian	Catskill Formation						
				Upper Devonian						

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