

TABLE 4.—Correlation of named Pennsylvanian stratigraphic units in the Breathitt Formation in Martin and Pike Counties, Kentucky, and nearby areas

Martin County, Ky. (Crandall, 1905)	Pike County, Ky. (Hoeing, 1913)	Mingo County, W. Va. (Hennen and Reger, 1914)	Magoffin County, Ky. (Browning and Russell, 1919)	Martin County, Ky. (Hudnall 1923a)	Martin and Pike Counties, Ky. (Wanless, 1939)	Mingo County, W. Va. (Wallace and others, 1954)	Tip Top quadrangle, Kentucky, Magoffin County (Welch, 1938)	Prestonsburg quadrangle, Kentucky, Floyd County (Hauser, 1938)	Big Sandy district, Kentucky. Martin, Pike, Johnson, and Floyd Counties (Harris, in Huddle and others, 1963)	Kermit-Varney quadrangles, Martin and Pike Counties, Ky.	
		Allegheeny Series	East Lynn Sandstone		East Lynn Sandstone						
			Middle Kittanning coal bed					Flint Ridge Flint of Morse			
"F" coal bed			No. 5 Block coal bed	Hindman coal bed	Richardson coal bed	Richardson coal bed	No. 5 Block coal bed	Lower Skyline coal bed	Hindman coal bed	Richardson coal bed	Upper Richardson coal bed
			Clarion coal bed					Coal bed			
			Lower Clarion Sandstone					Coal bed			Lower Clarion coal bed
			Lower Clarion coal bed		Lower Clarion coal bed						
			Homewood Sandstone	Puncheon Creek Sandstone	Homewood Sandstone			Sandstone	Homewood Sandstone		
			Kanawha Flint					Marine zone			Marine zone
Broas "E" coal bed			Stockton coal bed	Fugate coal bed	Broas coal bed	Broas coal bed	Stockton coal bed	Hindman coal bed	Francis coal bed	Torchlight coal bed	Upper Broas coal bed Lower Broas coal bed
			Upper Coalburg Sandstone	High Rock Sandstone	Upper Peach Orchard Sandstone	Upper Peach Orchard Sandstone		Sandstone			
							Marine zone			Marine zone	
			Flag rider coal bed		Coalburg "A" coal bed		Coal bed			Upper Peach Orchard coal bed	
"D" coal bed	Coalburg coal bed	Coalburg coal bed	Flag coal bed	Peach Orchard coal bed	Peach Orchard coal bed	Coalburg coal bed	Fugate coal bed	Flag coal bed	Peach Orchard coal bed	Lower Peach Orchard coal bed	
		Little Coalburg coal bed			Little Coalburg coal bed						
		Lower Coalburg Sandstone		Lower Peach Orchard Sandstone	Lower Peach Orchard Sandstone						
		Buffalo Creek coal bed	Hazard coal bed?	Buffalo Creek coal bed	Buffalo Creek coal bed	Buffalo Creek coal bed	Oakley coal bed	Hazard coal bed		Buffalo Creek coal bed	
		Buffalo Creek Limestone			Fossil Limestone		Fossils and chert				
		Upper Winifrede Sandstone					Coal bed				
"C" coal bed	Borderland coal bed	Winifrede coal bed	Whittaker coal bed	Winifrede coal bed	Winifrede coal bed	Winifrede coal bed	Prater coal zone	Haddix coal bed	Haddix coal bed	Winifrede coal bed	
		Lower Winifrede Sandstone									
			Young coal bed				Upper Haddix coal bed			Young? coal bed	
			Trace Fork coal bed				Lower Haddix coal bed			Trace Fork coal bed	
Fossil rock			Fossil Limestone	Fossil Limestone	Magoffin Limestone	Fossil shale	Magoffin beds of Morse	Magoffin Limestone	Magoffin beds of Morse (1931)	Magoffin beds of Morse (1931)	
"B" coal bed	Taylor coal bed	Chilton "A" coal bed		Limestone coal bed	Coal bed	Chilton "A" coal bed	Coal bed			Taylor coal bed	
							Upper Hamlin coal bed				
							Lower Hamlin coal bed		Hamlin coal bed	Hamlin coal bed	
		Upper Chilton Sandstone									
		Chilton rider coal bed	Fire Clay rider coal bed	Fire Clay rider coal bed	Fire Clay rider coal bed	Chilton rider coal bed	Fire Clay rider coal bed	Fire Clay rider coal bed	Fire Clay rider coal bed	Fire Clay rider coal bed	
	Cannel seam	Chilton coal bed	Fire Clay coal bed	Fire Clay coal bed	Fire Clay coal bed	Chilton coal bed	Fire Clay coal bed	Fire Clay coal bed	Fire Clay coal bed	Fire Clay coal bed	
		Lower Chilton Sandstone									
		Little Chilton coal bed		Little Fire Clay coal bed	Coal bed	Little Chilton coal bed	Coal bed	Little Fire Clay coal bed	Upper Whitesburg coal bed	Upper Whitesburg coal bed	
		Hernshaw Sandstone									
		Hernshaw coal bed	Whitesburg coal bed	Whitesburg coal bed	Coal bed	Hernshaw coal bed	Whitesburg coal bed	Whitesburg coal bed	Lower Whitesburg coal bed	Lower Whitesburg coal bed	
		Naugatuck Sandstone									
		Dingess coal bed			Coal bed					Dingess coal bed	
		Williamson Sandstone									
		Dingess Limestone			Kendrick Shale			Kendrick Shale	Kendrick Shale of Jillson (1919)	Kendrick Shale of Jillson (1919)	
	Upper Thacker coal bed	Williamson coal bed	Gun Creek coal bed	Amburgy coal bed	Williamson coal bed	Williamson coal bed	Gun Creek coal bed	Amburgey coal bed	Williamson coal bed	Williamson rider coal bed Williamson coal bed	
		Upper Cedar Grove Sandstone									
					Elkins Fork Shale			Upper Elkhorn No. 3½ coal bed		Coal bed (local)	
								Elkins Fork Shale		Elkins Fork Shale of Morse (1931)	
										Van Lear rider coal bed	
	Lower Thacker coal bed	Cedar Grove coal bed	Tom Cooper coal bed	Van Lear coal bed	Van Lear coal bed	Cedar Grove coal bed	Tom Cooper coal bed	Upper Elkhorn No. 3 coal bed	Upper Elkhorn No. 3 coal bed	Upper Van Lear coal bed	
		Middle Cedar Grove Sandstone									
		Lower Cedar Grove coal bed	Lacey Creek coal bed			Lower Cedar Grove coal bed		Upper Elkhorn No. 2 coal bed	Upper Elkhorn No. 2 coal bed	Lower Van Lear coal bed	
		Lower Cedar Grove Sandstone									
								Campbell Creek Limestone			
		Alma "A" coal bed				Alma "A" coal bed				Alma rider coal bed	
Warfield coal bed	Alma coal bed	Alma coal bed	Howard coal bed	Wayland coal bed	Warfield coal bed	Alma coal bed		Upper Elkhorn No. 1 coal bed	Upper Elkhorn No. 1 coal bed	Alma coal bed	
		Logan sandstone									
		Little Alma coal bed								Coal bed (local)	
		Peerless Sandstone									
		Campbell Creek Limestone								Campbell Creek Ls of White (1885)	
										Pond Creek rider coal bed	
	Freeburn coal bed	Campbell Creek coal bed	Wheelerburg coal bed	Lower Elkhorn coal bed	Pond Creek coal bed	No. 2 Gas coal bed		Pond Creek coal bed	Lower Elkhorn coal bed	Pond Creek coal bed	
		Brownstown Sandstone									
		Powellton "A" coal bed									
		Powellton coal bed						Bingham coal bed		Powellton? coal bed	
		Cannelton Limestone									