






Table 1a. Generalized stratigraphy of Appalachian basin Total Petroleum Systems (adapted from de Witt and Milici, 1991, fig. 2).

ERA	PERIOD	STRATIGRAPHIC UNIT	RESERVOIR	ASSESSMENT UNIT TYPE	SOURCE ROCK	TOTAL PETROLEUM SYSTEM
P	Permian	Dunkard Group				
	PENNSYLVANIAN	Monongahela Group	Coal sandstone	Continuous	Coal Black shale	Carboniferous Coal-bed Gas
		Conemaugh Group	Coal sandstone	Continuous	Coal Black shale	
		Allegheny Group	Coal sandstone	Continuous	Coal Black shale	
		Pottsville Group	Coal sandstone	Continuous	Coal Black shale	
	MISSISSIPPIAN	Mauch Chunk / Pennington Formations	Ravenclyff sand Maxon sand	Conventional		
		Greenbrier Limestone	Loyalhanna sand Big lime	Conventional		
		Pocono Formation	Big Injun, Squaw, Weir sands	Conventional		
		Berea / Murrysville Sandstones	Berea sand Murrysville sand	Continuous	Sunbury Shale	
	DEVONIAN	Catskill, Brallier Fms., Cleveland, Ohio, Huron, Rhinestreet Shales	Venango, Bradford, Elk sands; black shale	Continuous	Upper Devonian black shales	
		Harrell Formation	Black shale	Continuous	Burket Member	
		Hamilton Group	Black shale	Continuous	Marcellus Shale	
		Onondaga Group Huntersville Chert	Huntersville Chert "Corniferous" lime	Conventional		
		Oriskany Ss.	Oriskany sands	Conventional		
		Helderberg Group				
	SILURIAN	Bass Islands Dolomite				
		Salina Group		Regional seal		
		Lockport Dolomite	"Corniferous" lime			
		Clinton Group	Keefer or Big Six sand	Continuous		
		Medina Group	Tuscarora/Clinch Ss. Clinton/Medina sand	Continuous		
ORDOVICIAN	Juniata/Bald Eagle Fms.	Bald Eagle sand				
	Reedsville Shale					
	Utica Shale	Utica Shale	Continuous	Utica Shale		
	Trenton Limestone	Trenton Limestone	Conventional	Trenton Limestone		
	Black River Limestone	Black River Ls., Wells Creek fm.	Conventional	Sevier/ Blockhouse Sh.		
	Beekmantown Group	Upper Knox Dol.	Conventional			
CAMBRIAN	Chepultepec and Copper Ridge Dols.	Rose Run sand, Lower Knox, Dol.	Conventional			
	Conasauga Formation / Group			Conasauga Formation		
	Rome Formation	Rome Formation				
	Mt. Simon Sandstone	Basal Clastics				

LITHOLOGY OF SOURCE ROCK OR RESERVOIR

-  Coal, black shale, and sandstone
-  Black shale and coal
-  Sandstone
-  Limestone
-  Dolomite

Devonian Shale-Middle and Upper Paleozoic

Utica-Lower Paleozoic

Conasauga-Rome/Conasauga