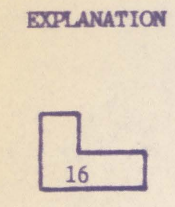


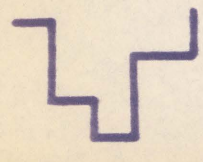
HYDRO- GEOLOGIC UNIT	GENERAL DESCRIPTION	GEOLOGIC UNITS	MAJOR LITHOLOGIES
1	Western Great Valley shales and eastern Great Valley shales containing significant graywacke	Martinsburg, Hamburg Formations	Shale, graywacke, minor limestone
2	Eastern Lebanon Valley carbonate rocks	Berks, Haverhill, Amherst, Otsego, Spartanburg, Richland, Milbach, Schaffers- burg, Little Creek, Buffalo Springs Formations	Limestone, dolomite, minor sandstone, minor conglomerate, minor chert
3	Eastern Piedmont metamorphic rocks	Antietam, Harpers, Chickies Formations	Quartzite, schist, phyllite, gneiss, granulite, gabbro
4	Cumberland Valley carbonate rocks	Chambersburg Forma- tion, St. Paul Group, Pineburg Station, Rockdale Sum, Stonehenge, Stoufferstown, Shady- grove, Gallinger, Elbrook, Waynesboro, Tombstone Formations	Limestone, dolomite, minor sandstone, minor shale, minor chert
5	Western Triassic sedimentary rocks	Gettysburg, Hamer Formations	Shale, siltstone, sandstone, conglom- erate, minor lime- stone
6	Eastern Triassic sedimentary rocks	Gettysburg, Hamer Formations	Shale, siltstone, sandstone, conglom- erate, minor lime- stone
7	Conestoga Valley carbonate rocks west of Susquehanna River	Conestoga, Leder, Kinners, Vintage For- mations	Limestone, dolomite, shale, phyllite
8	Conestoga Valley carbonate rocks east of Susquehanna River	Antietam, Harpers, Chickies Formations	Quartzite, schist, phyllite
9	Northern Conestoga Valley carbonate rocks east of Susquehanna River	Berks, Haverhill, Amherst, Otsego, Spartanburg, Richland, Milbach, Little Creek, Buffalo Springs, Zoeks Corner, Leder, Kinners, Vintage Formations	Limestone, dolomite, shale, minor sand- stone, minor conglom- erate

HYDRO- GEOLOGIC UNIT	GENERAL DESCRIPTION	GEOLOGIC UNITS	MAJOR LITHOLOGIES
10	Central Piedmont metamorphic rocks	Peters Creek Schist, Washkinton Forma- tion, Cardiff Con- glomerate, Peach Bottom Slate, un- named metamorphic rocks	Schist, quartzite, phyllite, gneiss, slate, conglomerate
11	Southern Piedmont metamorphic rocks	Fort Deposit Gneiss, Washkinton Forma- tion, Cardiff Con- glomerate, Peach Bottom Slate, Ballmore Complex, un-named metamorphic rocks	Schist, quartzite, phyllite, gneiss, slate, conglomerate, gabbro
12	Great Valley shales on flank of Blue Mountains	Martinsburg, Hamburg Formations	Shale, graywacke rocks
13	Combination unit consisting of model blocks containing both Triassic sedimentary rocks (units 5, 6) and Triassic and Cretaceous diabase	Gettysburg, Hamer Creek, New Oxford, Stockton Formations, un-named igneous rocks	Shale, siltstone, sandstone, conglom- erate, diabase
14	Combination unit consisting of model blocks containing both Conestoga Valley carbonate rocks west of Susquehanna River (unit 7) and Conestoga Valley metamorphic rocks west of Susquehanna River (unit 8)	Conestoga, Leder, Kinners, Vintage, Antietam, Harpers, Chickies Formations	Limestone, dolomite, shale, phyllite, quartzite, schist
15	Northern Conestoga Valley shales	Cocalico Formation	Shale, minor sand- stone
16	Combination unit consisting of model blocks containing both Conestoga Valley metamorphic rocks east of Susquehanna River and Conestoga Valley carbonate rocks east of Susque- hanna River (unit 9, 17)	Conestoga, Buffalo Springs, Zoeks Corner, Leder, Kinners, Vintage, Antietam, Harpers, Chickies Formations	Limestone, dolomite, shale, quartzite, schist, phyllite, minor conglomerate, minor sandstone

HYDRO- GEOLOGIC UNIT	GENERAL DESCRIPTION	GEOLOGIC UNITS	MAJOR LITHOLOGIES
17	Southern Conestoga Valley carbonate rocks east of Susque- hanna River	Conestoga Formation	Limestone, dolomite, phyllite, gneiss, slate
18	Triassic conglom- erates	Gettysburg, Hamer Creek Formations	Conglomerate, sand- stone
19	Combination unit consisting of model blocks containing both Triassic con- glomerates (unit 18) and Triassic sedi- mentary rocks (unit 5, 6)	Gettysburg, Hamer Creek Formations	Shale, siltstone, sandstone, conglom- erate, minor lime- stone
20	Western Lebanon Valley carbonate rocks	Berks, Haverhill, Amherst, Otsego, Spartanburg, Richland Formations	Limestone, dolomite, minor chert
21	Eastern Great Valley shales not containing significant graywacke	Ramberg Sequence	Shale, graywacke, minor limestone



Hydrogeologic unit boundary and unit number



Boundary of modeled area. Represents a no-flow boundary in both layers

Constant-flux boundary in both layers

Constant-head boundary in upper layer

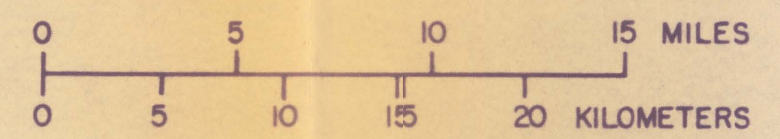
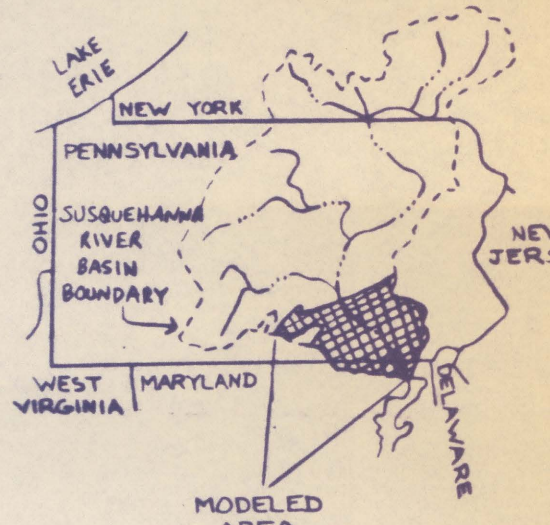


Plate 1.- Approximation of hydrogeologic units and boundaries used in model.