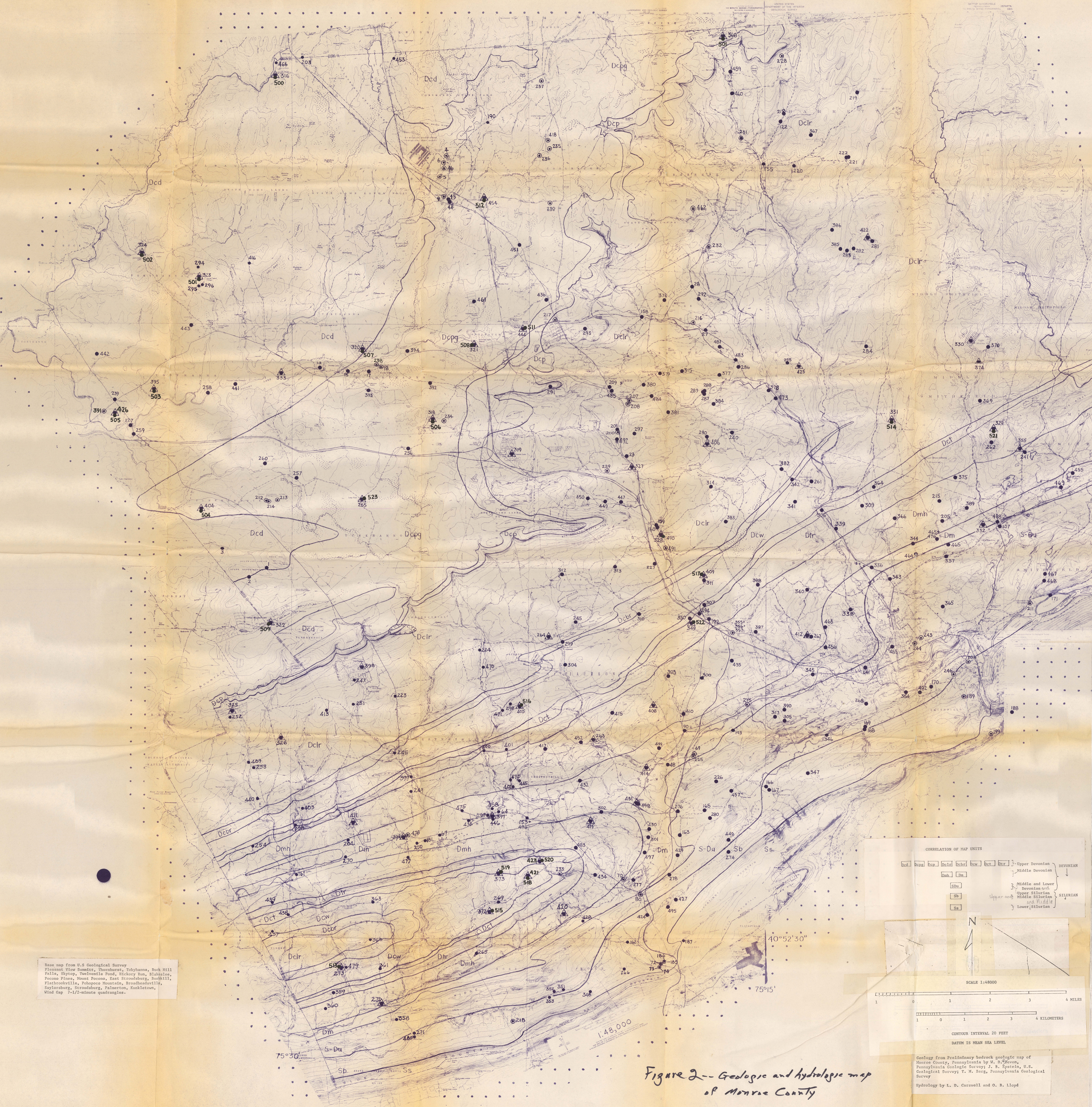

Figure 2-- Geologic and hydrologic map of Monroe County

Base map from U.S Geological Survey
Pleasant View Summitt, Thornhurst, Tobyhanna, Buck Hill Falls, Skytop, Twelvemile Pond, Hickory Run, Blakeslee, Pocono Pines, Mount Pocono, East Stroudsburg, Bushkill, Flatbrookville, Pohopoco Mountain, Broadheadsville, Saylorsburg, Stroudsburg, Palmerton, Kunkletown, Wind Gap 7-1/2-minute quadrangles.

CORRELATION OF MAP UNITS

Dcd, Dcpg, Dcp, Dclr, Dcbr, Dcw, Dct, Dtr	Upper Devonian	DEVONIAN
Dmh, Dm	Middle Devonian	DEVONIAN
SDu	Middle and Lower Devonian and Upper Silurian	DEVONIAN / SILURIAN
Sb	Upper and Middle Silurian	SILURIAN
Ss	Lower and Middle Silurian	SILURIAN

N

SCALE 1:48000

1 0 1 2 3 4 MILES

1 0 1 2 3 4 KILOMETERS

CONTOUR INTERVAL 20 FEET

DATUM IS MEAN SEA LEVEL

Geology from Preliminary bedrock geologic map of Monroe County, Pennsylvania by W. D. Sevon, Pennsylvania Geologic Survey; J. B. Epstein, U.S. Geological Survey; T. M. Berg, Pennsylvania Geological Survey

Hydrology by L. D. Carswell and O. B. Lloyd

EXPLANATION

Dc						
Dcd	Dcpg	Dcp	Dclr	Dcbr	Dcw	Dct

Catskill Formation

Duncannon Member, Dcd, red conglomerate, sandstone, siltstone and shale. Forms hills and ridges on Pocono Plateau. One-hour specific capacity 0.22 (gal/min)/ft ; low in solutes, 24-hour potential yield[2] is 55 gal/min ; water level below land surface[3] is 38 ft ; water is dilute, soft, and potentially corrosive. Specific conductance[4] 160 micromhos.

Poplar Gap Member, Dcpg, medium-gray sandstone and conglomerate and minor red shale and siltstone with rare calcareous lenses. One-hour specific capacity is 0.67 (gal/min)/ft ; low in solutes, 24-hour potential yield is 215 gal/min ; water level below land surface is 26 ft ; water is dilute, soft to moderately hard, and potentially corrosive. Specific conductance is 154 micromhos; hardness[5] is 4 gpg ; excessive concentrations of iron and manganese occur locally.

Packerton Member, Dcp, greenish-gray to gray sandstone and conglomerate ~~with~~ and rare calcareous lenses. Cliff former at the Pocono Plateau escarpment. Information for 1 well available. One-hour specific capacity is 0.11 (gal/min)/ft ; water level below land surface is 100 ft . No water- quality data.

Long Run Member, Dclr, alternating gray sandstone and red siltstone and shale. One-hour specific capacity is 0.19 (gal/min)/ft ; low in solutes, 24-hour potential yield is 40 gal/min ; water level below land surface is 46 ft ; water is dilute, soft, and potentially corrosive. Specific conductance is 160 micromhos; hardness is 2 gpg .

Beaverdam Run Member, Dcbr, greenish-gray sandstone with lesser amounts of siltstone and shale. Hydrologic information from 2 wells. Average one-hour specific capacity is 0.18 (gal/min)/ft ; 24-hour potential well yield probably the same as the Long Run Member is 45 gal/min ; average water level below land surface is 34 ft ; No water-quality data.

Walcksville Member, Dcw, alternating greenish-gray sandstones and red shales. One-hour specific capacity is 0.12 (gal/min)/ft ; 24-hour potential yield is 35 gal/min ; water level below land surface is 50 ft ; no water-quality data.

Towamensing Member, Dct, median-gray sandstone with interbedded silty shale and siltstone. One-hour specific capacity, is 0.10 (gal/min)/ft ; 24-hour potential yield is 30 gal/min ; water level below land surface is 60 ft ; no water-quality data.

Dtr

Trimmers Rock Formation

Gray and olive-gray massive and fissile siltstone with minor shale. One-hour specific capacity is 0.18 (gal/min)/ft ; low in solutes, 24-hour potential yield is 90 gal/min ; water-level below land surface is 33 ft ; water is dilute, soft, and potentially corrosive. Specific conductance is 168 micromhos; hardness is 3.5 gpg .

Dmh

Mahantango Formation

Medium-dark-gray siltstone and shale. One-hour specific capacity is 0.20 (gal/min)/ft ; 24-hour potential yield is 70 gal/min water level below land surface is 26 ft ~~(7.9 m)~~; water is dilute, low in solutes, soft and potentially corrosive. Specific conductance is 200 micromhos; hardness is 2.5 gpg.

Dm

Marcellus Formation

Grayish-black, carbonaceous, fissile shale and silty shale, commonly overlain by thick, saturated unconsolidated deposits. One-hour specific capacity is 0.36 (gal/min)/ft ; 24-hour potential yield is 110 gal/min ; water level below land surace is 23 ft ; water is dilute, low in solutes, soft to moderatley hard and potentially corrosive. Specific conductance is <200 micromhos, hardness is 4 gpg .

S-Du

Silurian-Devonian Undifferentiated

Structurally complex sequence of carbonate rocks, shales and siltstones, and minor calcareous sandstone and conglomerate. See table 1 in text for description of of individual formations in this unit. One-hour specific capacity is 0.26 (gal/min)/ft; 24-hour potential yield is 160 gal/min; (carbonate rocks may yield much more); water level below land surface is 15 ft; Water in noncarbonates is generally dilute, low in solutes, and moderately hard; specific conductance is 200 to 400 micromhos; hardness is 5 to 7 gpg. Water in the carbonates is generally concentrated and hard to very hard; specific conductance is 400 to 750 micromhos hardness is 8 to 19 gpg.

Sb

Bloomsburg Formation

Red, green and gray sandstone, siltstone, and shale. Minor conglomeratic sandstone. Commonly covered with talus and colluvium from the weathering of the Shawangunk formation. One-hour specific capacity is 2 (gal/min)/ft; 24-hour potential yield is 265 gal/min; water level below land surface is 20 ft ; Water is moderately concentrated with dissolved solids and is moderately hard; specific conductance is 220 micromhos; hardness is 5 gpg.

Ss

Shawangunk Formation

Quartzose sandstone and conglomerate with some siltstone and shale. Forms crest of Kittatinny and Blue Mountains. Hydrologic data from 1 well indicate yields are low (5 gal/min or less) and water levels are deep (up to 212 feet below land surface). Water low in solutes soft and potentially corrosive. Specific conductance is 65 micromhos; hardness is 1 gpg.

444 ● Location of domestic well and county well number.

445 ▲ Location of composite well and county well number. Composite well is composed of the median values (such as well depth, casing depth, water level, yield, etc.) of 5 or more domestic wells in the immediate area of the composite well.

446 ◉ Location of public supply or industrial well and county well number.

Formation or member contact.

Probable landslide scar, sawteeth or mobile rock.

1/ Specific-capacity data are median values taken from table 4 in text; 2/ Yield data are 25 percent values taken from table 6; 3/ Water-level data are median values taken from table 10; 4/ Specific conductance data are median values taken from table 7; 5/ Hardness data are median values taken from table 7.