TOPOGRAPHIC AND GEOLOGIC SURVEY
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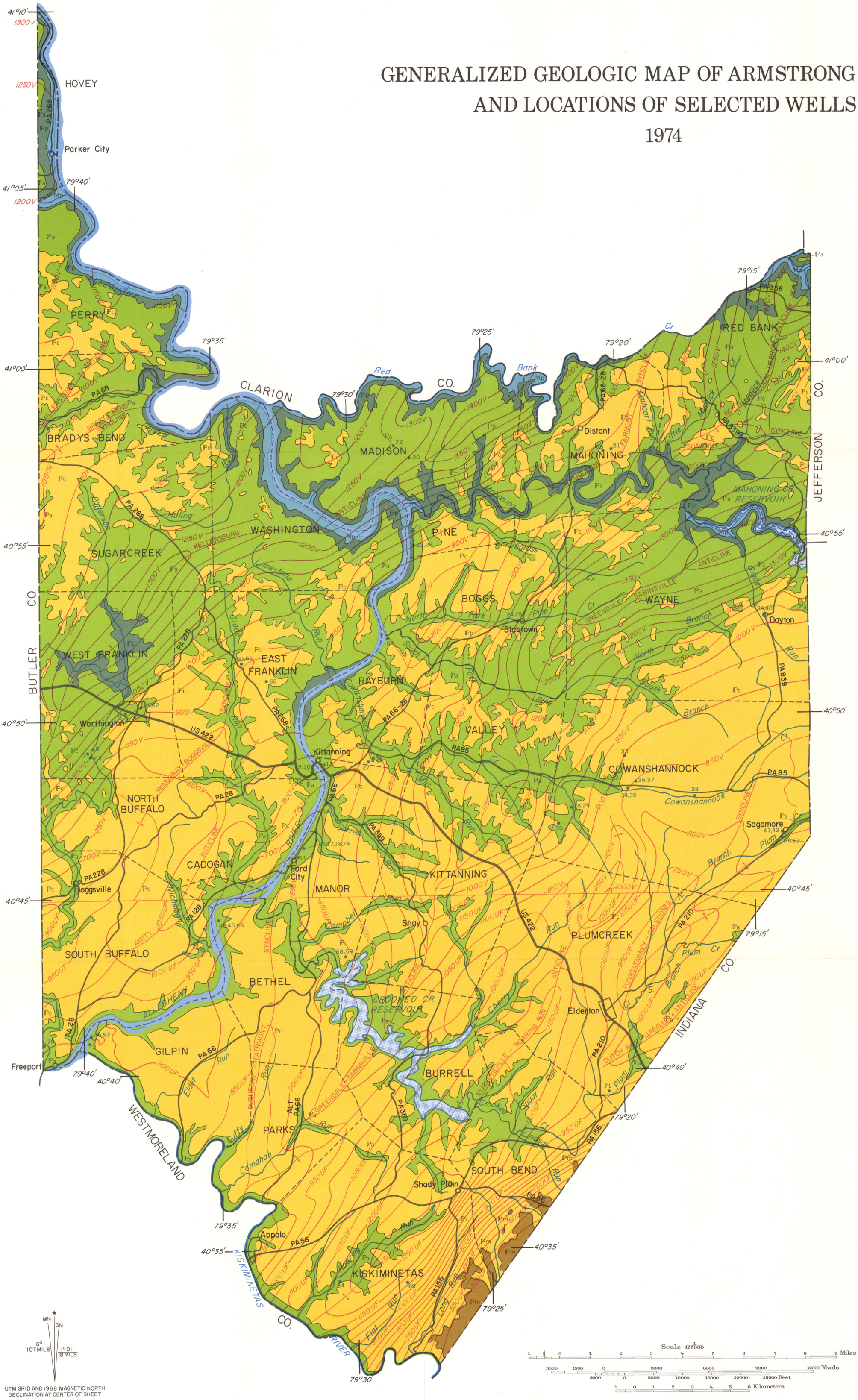
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES

W34 PLATE 1

GENERALIZED GEOLOGIC MAP OF ARMSTRONG COUNTY AND LOCATIONS OF SELECTED WELLS

1974



EXPLANATION

Qal

SURFICIAL DEPOSITS

Unconsolidated clay, silt, sand and boulders in deposits up to 130 feet in stream valleys. (Not mapped)

Data limited. Yields range from 10 to 1100 gpm; median of 400 gpm. Water is hard and generally high in chloride and sulfate, low in iron.

QUATERNARY

PENNSYLVANIAN

Pm

MONONGAHELA GROUP

Sandstones, shales, limestones and locally up to three coal beds.

Because of the small areal extent and topographic position, this formation is of little value as a water source. No data are available from wells in this group.

Pc

CONEMAUGH GROUP

Sandstones, shales, thin limestones and coals.

Well yields range from 2 to 200 gpm; median 5 gpm. Depths range from 60 to 232 feet; median 133 feet. Water is hard.

Pa

ALLEGHENY GROUP

Conglomerates, sandstones, shales, the Vanport Limestone and clays with eight coal horizons.

Moderate well yields. Ten out of nineteen wells yielded more and 25 gpm and up to 350 gpm. Depths of wells range from 18 to 355 feet with optimum depth between 150 and 200 feet. Water is chemically highly variable.

Pp

POTTSVILLE GROUP

Generally consists of two massive sandstones and an intervening shale; however, the sandstones may grade laterally into sandy shales and shales.

Limited data available. Yields range from 13 to 50 gpm, with a median yield of 42 gpm. Depths range from 52 to 105 feet, with a median depth of 86 feet. No anaylses of water from Pottsville Group in Armstrong County.

MISSISSIPPIAN

Mp

POCONO GROUP

Consists of shales and thick sandstones. The Burgoon sandstone, the uppermost unit, is about 300 feet thick.

No data from this group are available. The Burgoon sandstone is an excellent aquifer when not buried too deeply and yields up to 500 gpm have been reported from adjacent counties.

● 73 ● 228S

Well (S indicates data from well completion report)

Geologic Contact

1150UF 1050V

Upper Freeport Vanport

Structure Contours

Fold Axes

MN GN
6° 10°01'
107 MILS 18 MILS

UTM GRID AND 1968 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

Scale 1/125000

1 1/2 0 1 2 3 4 5 6 7 8 9 Miles

3000 1500 0 3000 6000 9000 12000 Yards

5000 0 5000 10000 15000 20000 25000 Feet

1 0 1 2 3 4 5 6 Kilometers

Base map and Geology by Pennsylvania Geologic Survey