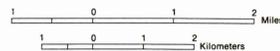
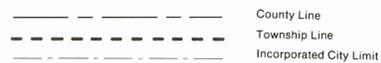


Ground-Water Resources of FULTON COUNTY

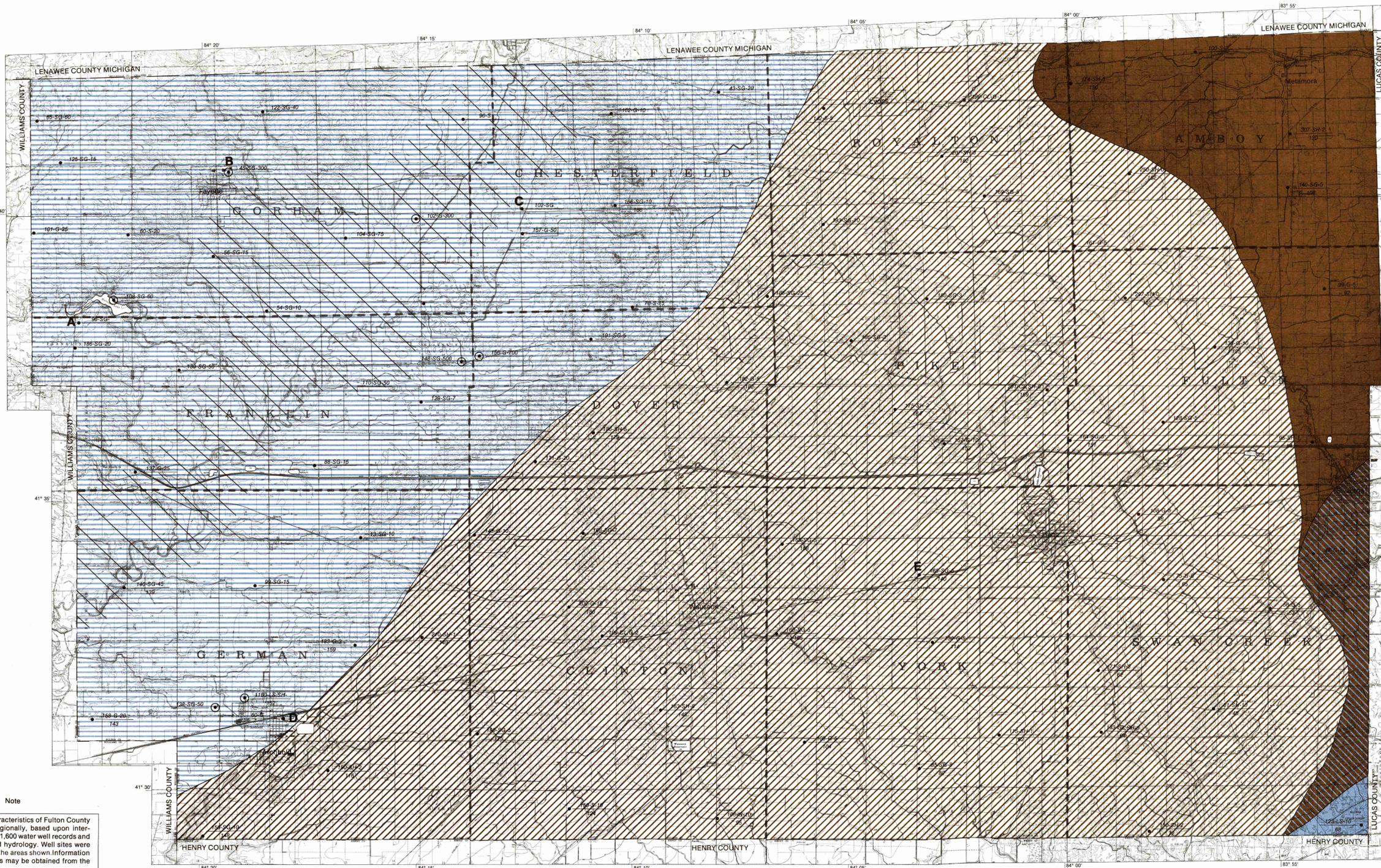
by
Alfred C. Walker



CONTOUR INTERVAL 5 FEET

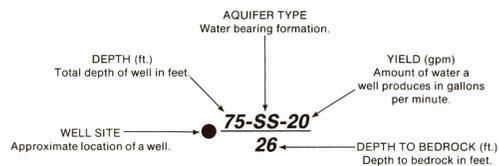


- Well Yields**
- AREAS IN WHICH YIELDS OF 100 TO 500 GALLONS PER MINUTE MAY BE DEVELOPED**
- Thick glacial deposits of sand and gravel, fine sand and layers of clay. Properly developed wells may supply more than 500 gallons per minute where coarse sands and gravels are present. The total thickness of these glacial deposits ranges from 135 to 150 feet.
 - Source and amount of water similar to above. Many wells flow when drilled.
 - Large supplies may be available in the carbonate bedrock aquifer at depths of greater than 100 feet. Farm and domestic supplies can usually be obtained at shallower depths. The water is hard and may contain hydrogen sulfide in objectionable amounts.
 - High-yielding wells may be developed in the carbonate aquifer beneath shale layers. However, hydrogen sulfide and high dissolved solids are to be expected. Availability of ground water in the overlying deposits is described below.
- AREAS IN WHICH YIELDS OF 3 TO 10 GALLONS PER MINUTE MAY BE DEVELOPED**
- Glacial deposits, consisting largely of fine sand and silty clay, contain localized lenses of sand and gravel which may yield as much as 10 gallons per minute. These unconsolidated deposits range in thickness from 45 feet in Swan Creek Township to more than 200 feet in the western portion of this area. Generally, less than 5 gallons per minute can be obtained from the underlying shale bedrock. Dry holes, methane and hydrogen sulfide are sometimes encountered.
 - Domestic supplies may be obtained from shale bedrock which underlies this area. Dry holes have been noted; methane and hydrogen sulfide gasses are often encountered. Adequate yields are occasionally developed from localized sand and gravel lenses in the glacial till.



Well Site Symbols

WELL INFORMATION
(SEE NOTE)



WELL TYPES

- Well Site
- Municipal-Industrial Well
- Chemical Analyses

AQUIFER TYPES

- S - Sand
- G - Gravel
- SG - Sand and Gravel
- Cl - Clay
- SH - Shale
- LS - Limestone

Chemical Analysis Table

Well Site	A	B	C	D	E
Aquifer	SG	SG	SG	SG	SG
Calcium (Ca)	96	24	73	37	38
Chloride (Cl)	12	44	665	470	128
Fluoride (F)	0.91	0.74	—	1.71	1.76
Iron (Fe)	3.9	0.41	0.86	0.64	2.12
Magnesium (Mg)	42	8	29	20.4	13.1
Manganese (Mn)	.08	.03	.03	.03	.04
Sodium (Na)	26	173	340	282	195
Sulfate (SO ₄)	97	69	10	20	20
Total Dissolved Solids	502	475	1312	898	628

Chemical constituents as milligrams per liter (mg/l)

Note

The ground-water characteristics of Fulton County have been mapped regionally, based upon interpretation of more than 1,600 water well records and the area's geology and hydrology. Well sites were selected as typical for the areas shown. Information regarding specific sites may be obtained from the Division of Water.

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