

**EXPLANATION**

- Note: well symbols may be combined on map
- Well, drilled, bored, or jetted
  - Well, driven
  - Well, dug
  - Well, water-level observation
  - Well, chemical analysis available
  - Well, log available
  - Well, chemical analysis and log available
  - Multiple well system
  - Test boring or sounding

TYPE OF PUMP	YIELD
H	e
Hand	Estimated
P	r
Power	Reported
N	m
None	Measured

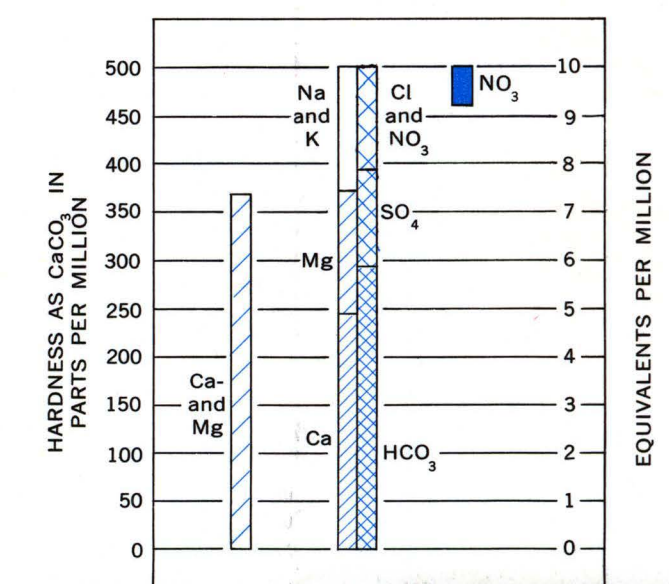
- Aquifer, if bedrock of Pennsylvanian (P) age
- Depth to water, in feet below land surface
- Month and year of water-level measurement
- Key number for specific capacity, transmissibility, and permeability given in table below
- Yield of well, in gallons per minute. When yield is unknown, type of pump is given
- Depth of well, in feet above mean sea level. Underlined when well or boring is not known to extend to bedrock

Key number	Specific capacity of well (gpm/ft drawdown)	Duration of draw-down test (hrs)	Transmissibility (gpd/sq ft)	Permeability (gpd/sq ft)	Depth of permeability sample (ft)	Remarks
(1)	200	1	360,000			
(2)	13	6		910	7	Sand
(3)				570	17	Do.
				100	31	Silt, sand, and clay.
(4)	25	24				
(5)	29	24				
(6)	50	24				
(7)	26	24				
(8)	50	24				
(9)	48	24				
(10)	49	24				
(11)	50	19				
(12)	75	24				
(13)	48	24		570	86-96	Some fines removed by jetting.
(14)	50	24		700	96-106	
(15)	40	8	55,300	140,000	106-116	
(16)	19			66,000	116-128	
(17)	53					
(18)	53					
(19)	39					
(20)	72					
(21)	27					
(22)	28					
(23)	22					
(24)	46					
(25)	30					
(26)	22	20				
(27)	45	24				
(28)	48	10				

**MAP SYMBOLS**

- Qao Quaternary alluvium of Ohio Valley
- Qat Quaternary alluvium of tributary valley
- P Pennsylvanian bedrock
- Geologic contact
- Dashed where approximately located
- Contour on bedrock
- Dashed where approximately located; contour interval 10 feet; datum is mean sea level

**CHEMICAL ANALYSES**

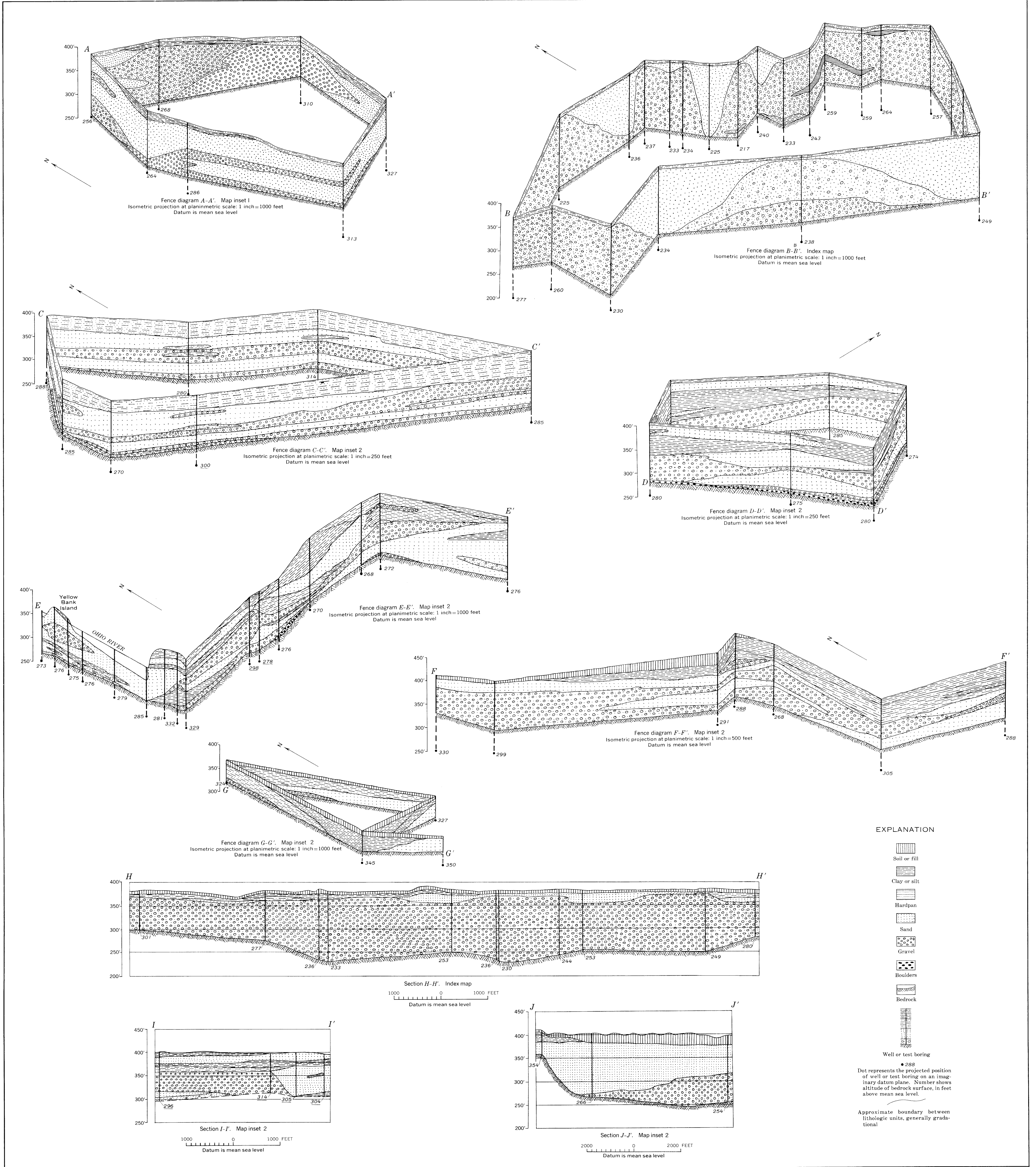


Hardness is read only to top of magnesium or sum of calcium and magnesium. When amount of nitrate is less than 10 parts per million (0.151 equivalents) it is combined with chloride. Bicarbonate and the sum of sodium and potassium are shown by dashed lines if estimated.

**LOG SYMBOLS**

- Soil or fill
- Hardpan
- Gravel
- Clay or silt
- Sand
- Bedrock

**GEOLOGY AND HYDROLOGY OF ALLUVIAL DEPOSITS ALONG THE OHIO RIVER IN THE LEWISPORT AND OWENSBORO AREAS, KENTUCKY**



INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—W 63036

SECTIONS AND FENCE DIAGRAMS OF ALLUVIAL DEPOSITS ALONG THE OHIO RIVER IN THE LEWISPORT AND OWENSBORO AREAS, KENTUCKY