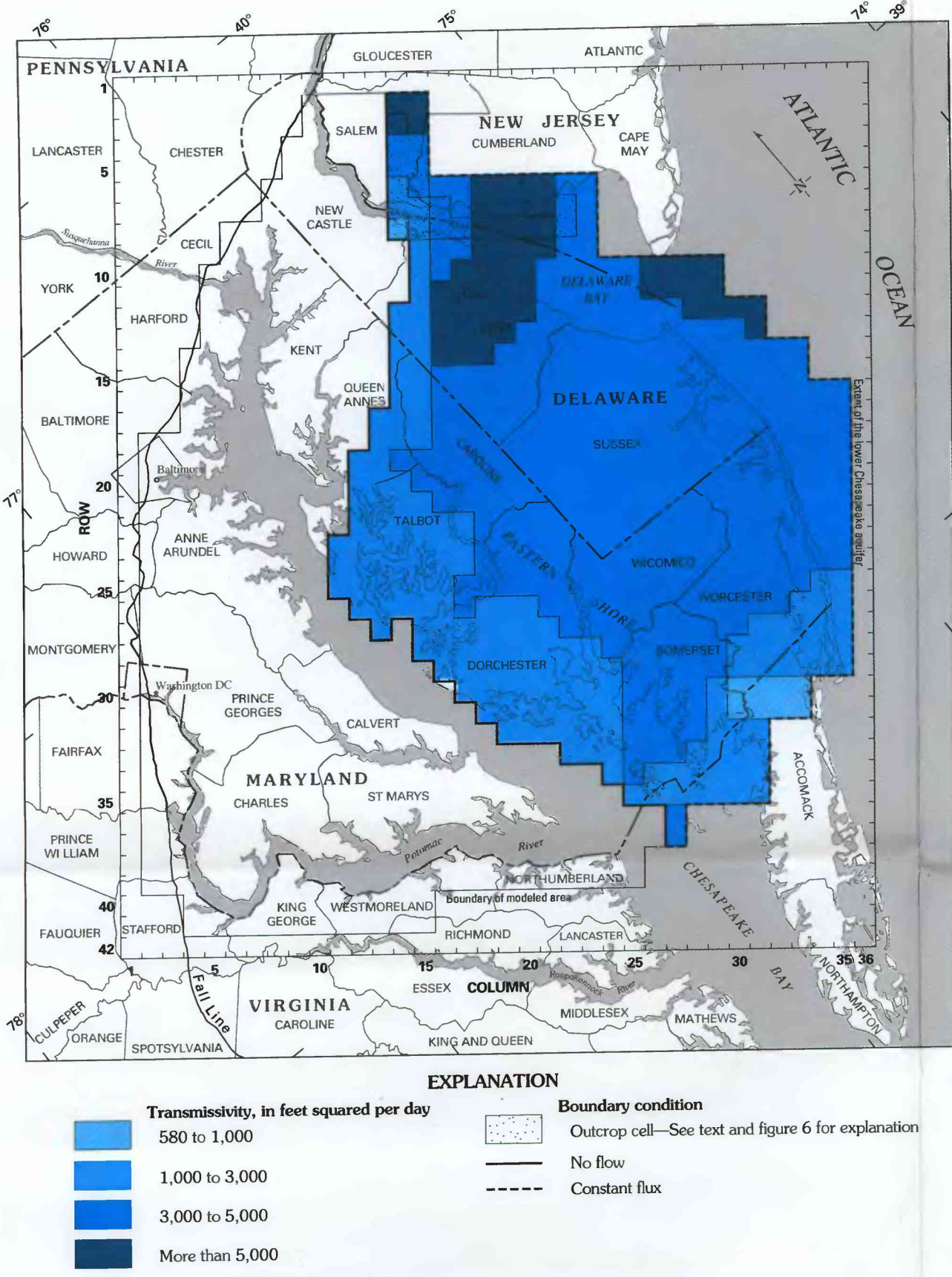
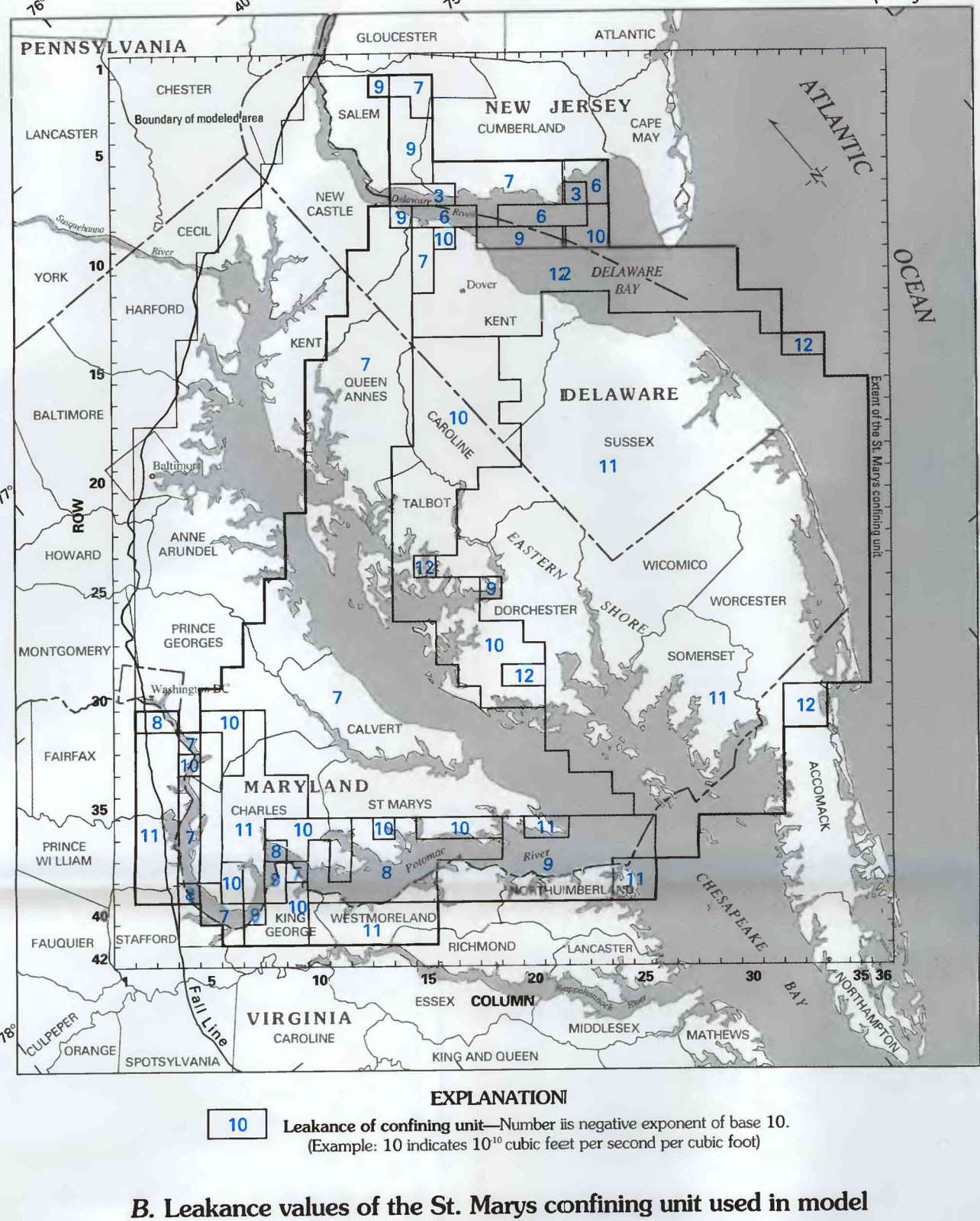
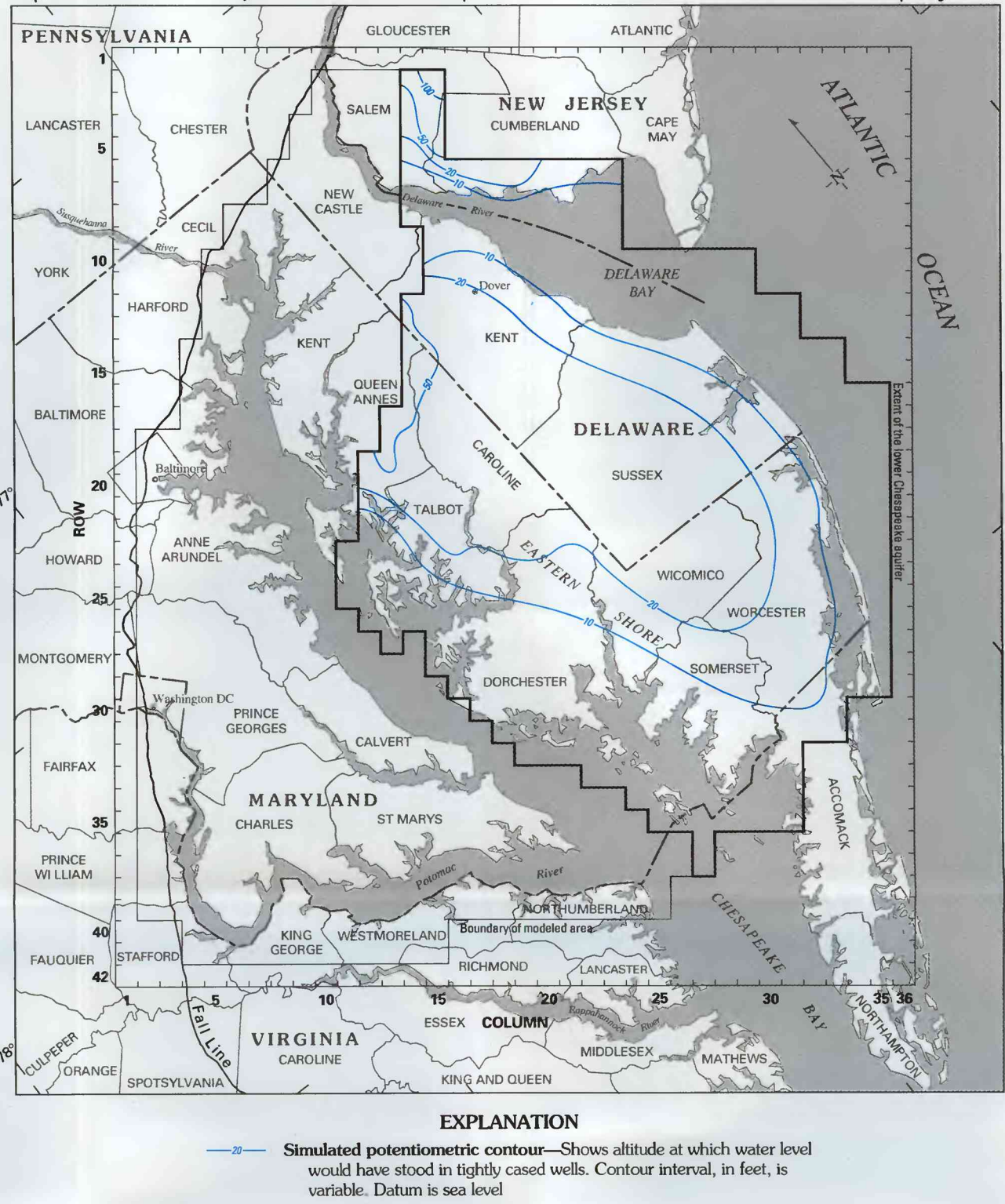




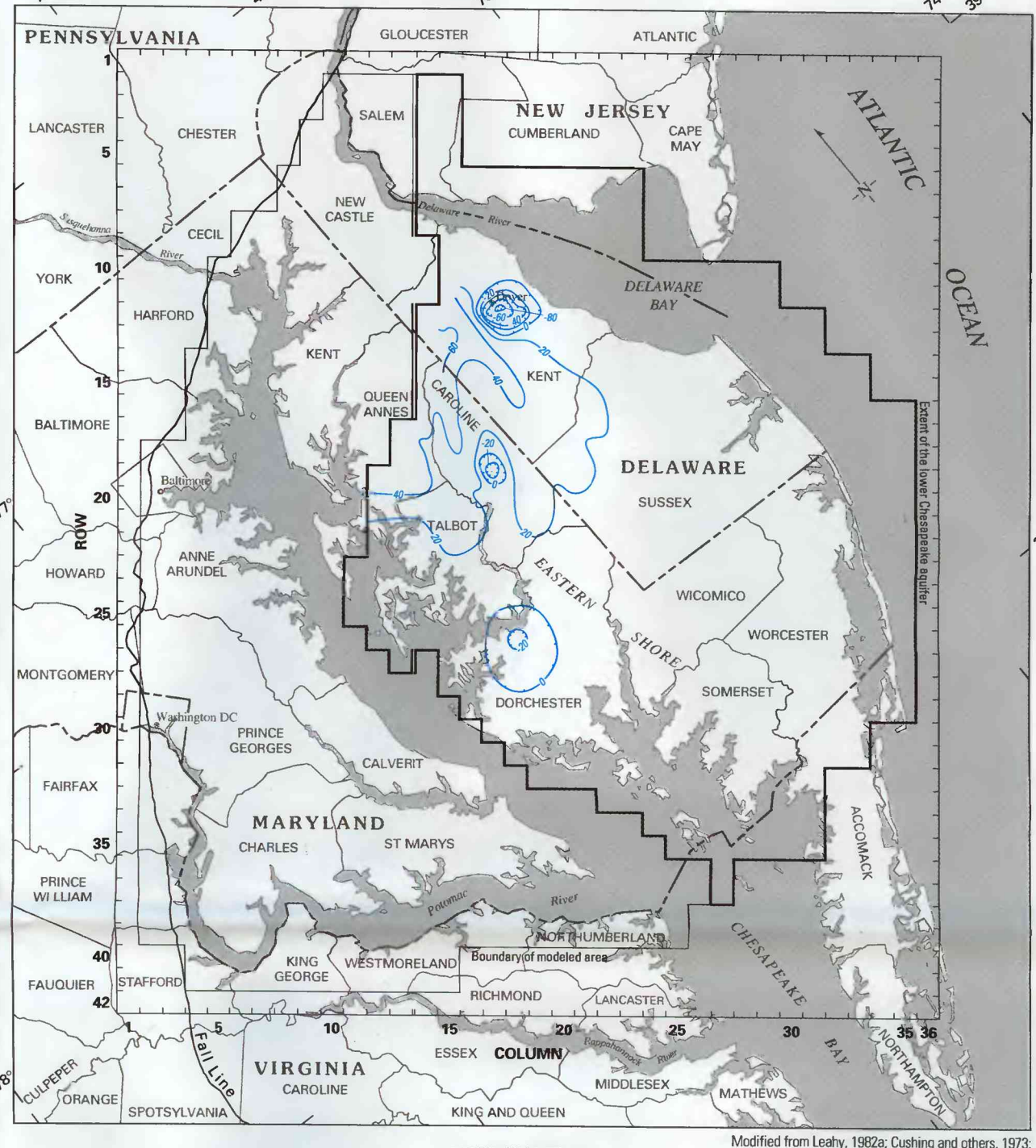
A. Transmissivity, boundary conditions, and extent of the lower Chesapeake aquifer as used in model



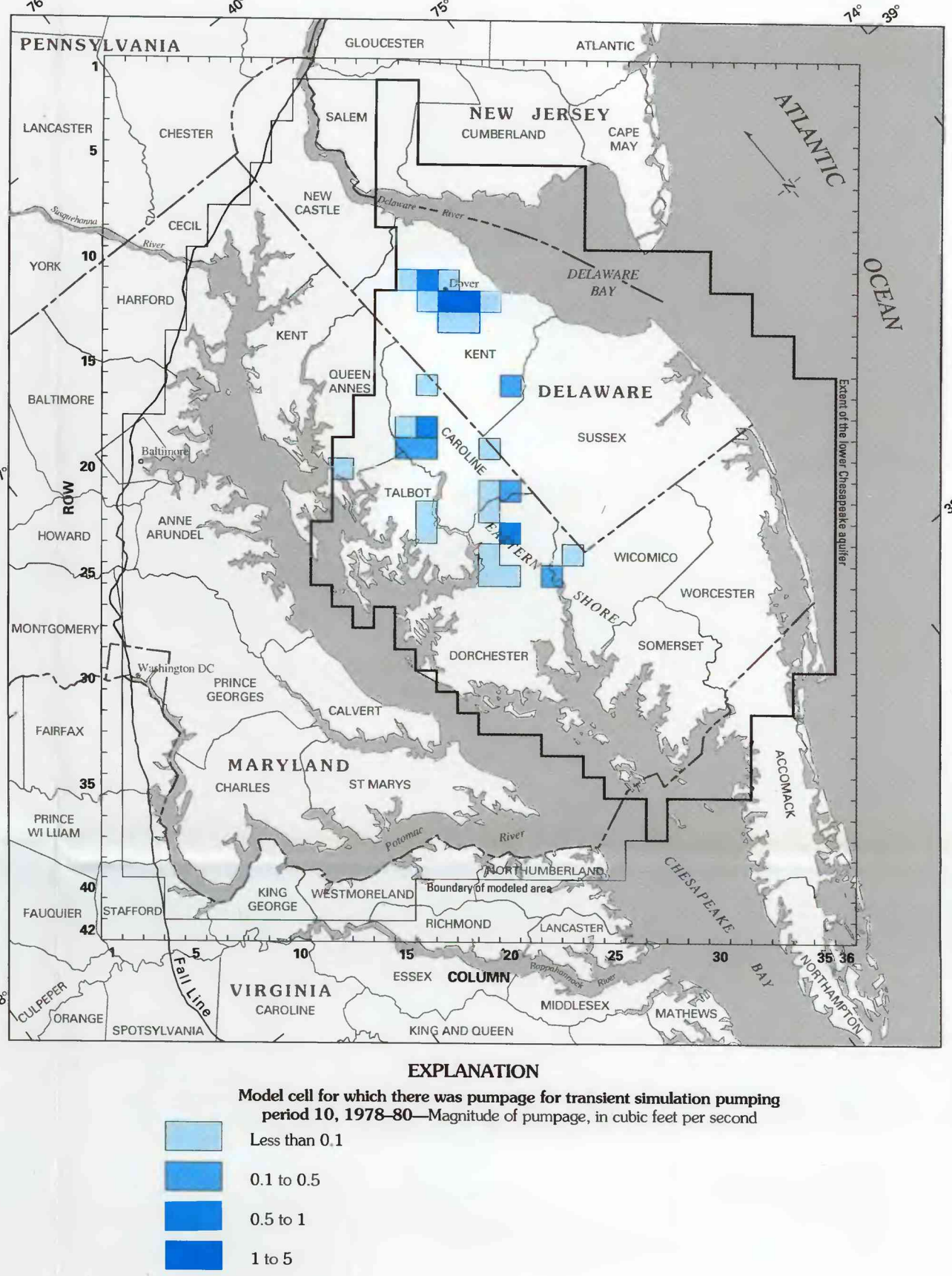
B. Leakage values of the St. Marys confining unit used in model



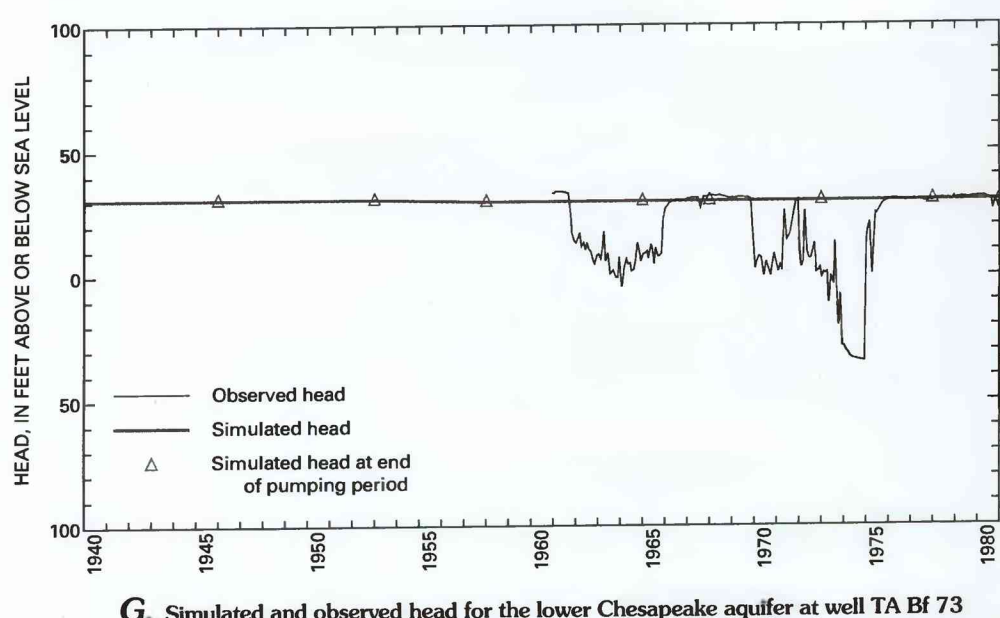
C. Simulated heads of the lower Chesapeake aquifer for prepumping conditions



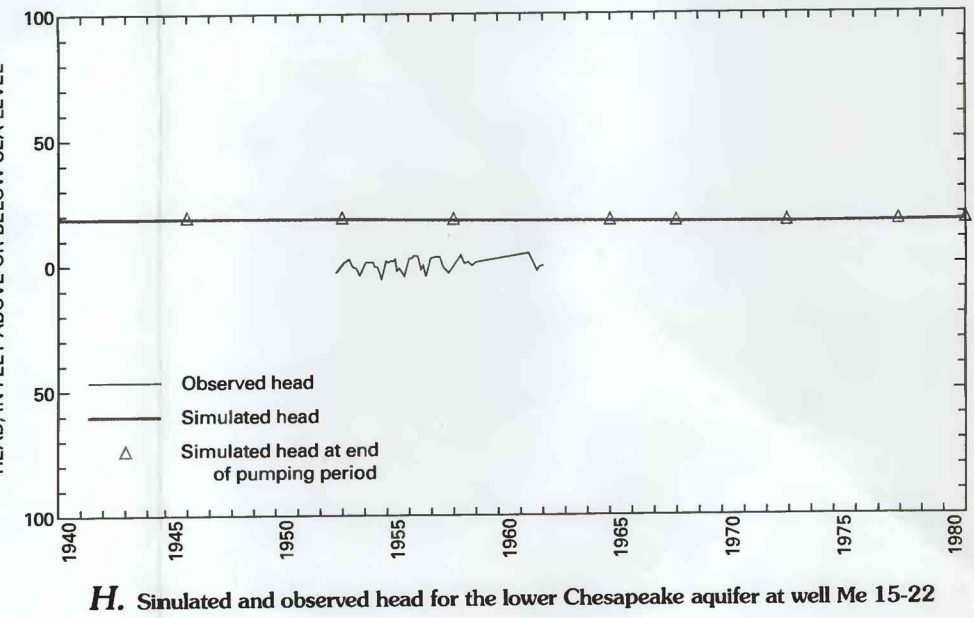
D. Observed heads of the lower Chesapeake aquifer for 1977



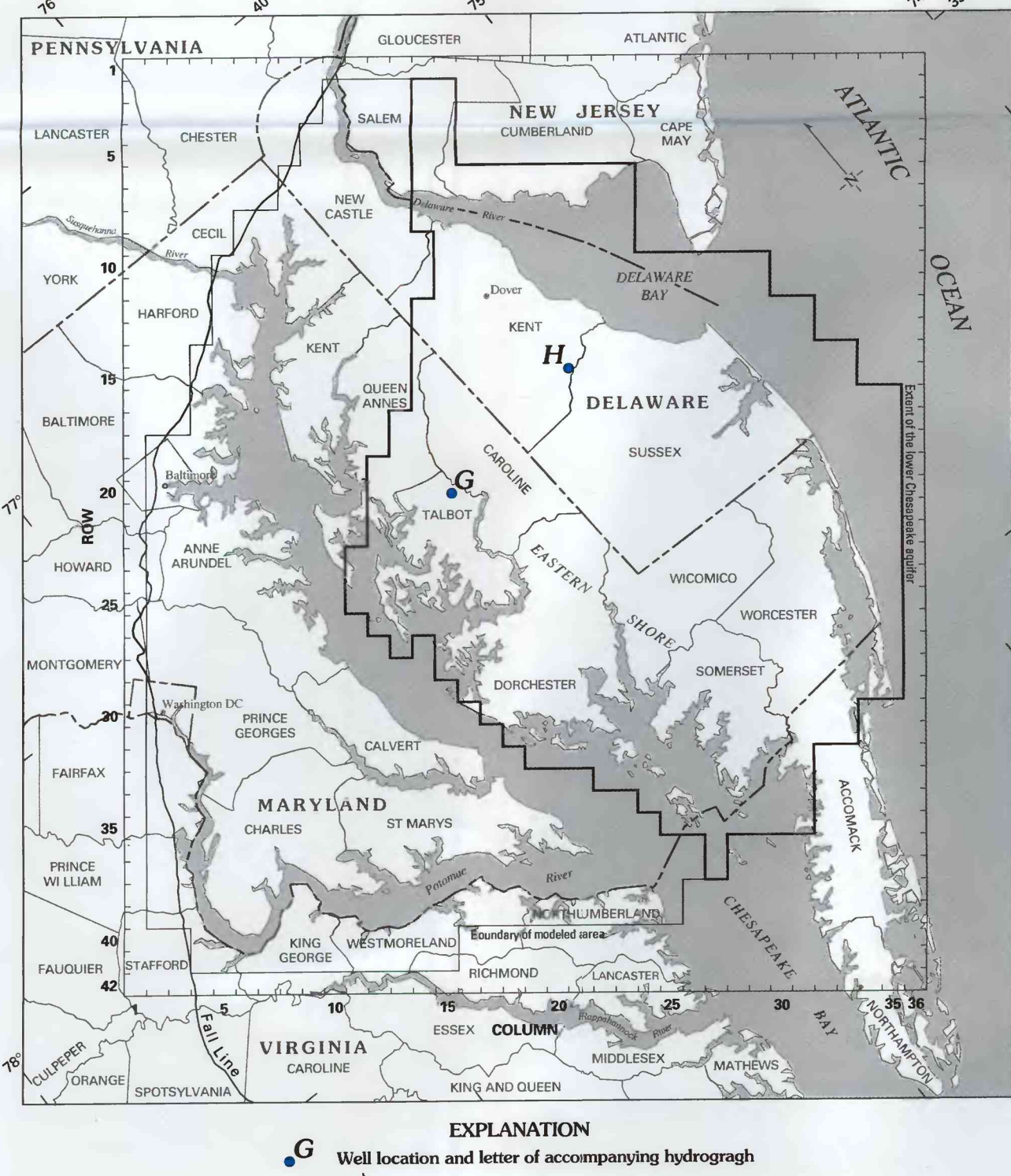
E. Location and magnitude of pumpage (1978-80) for the lower Chesapeake aquifer as used in model



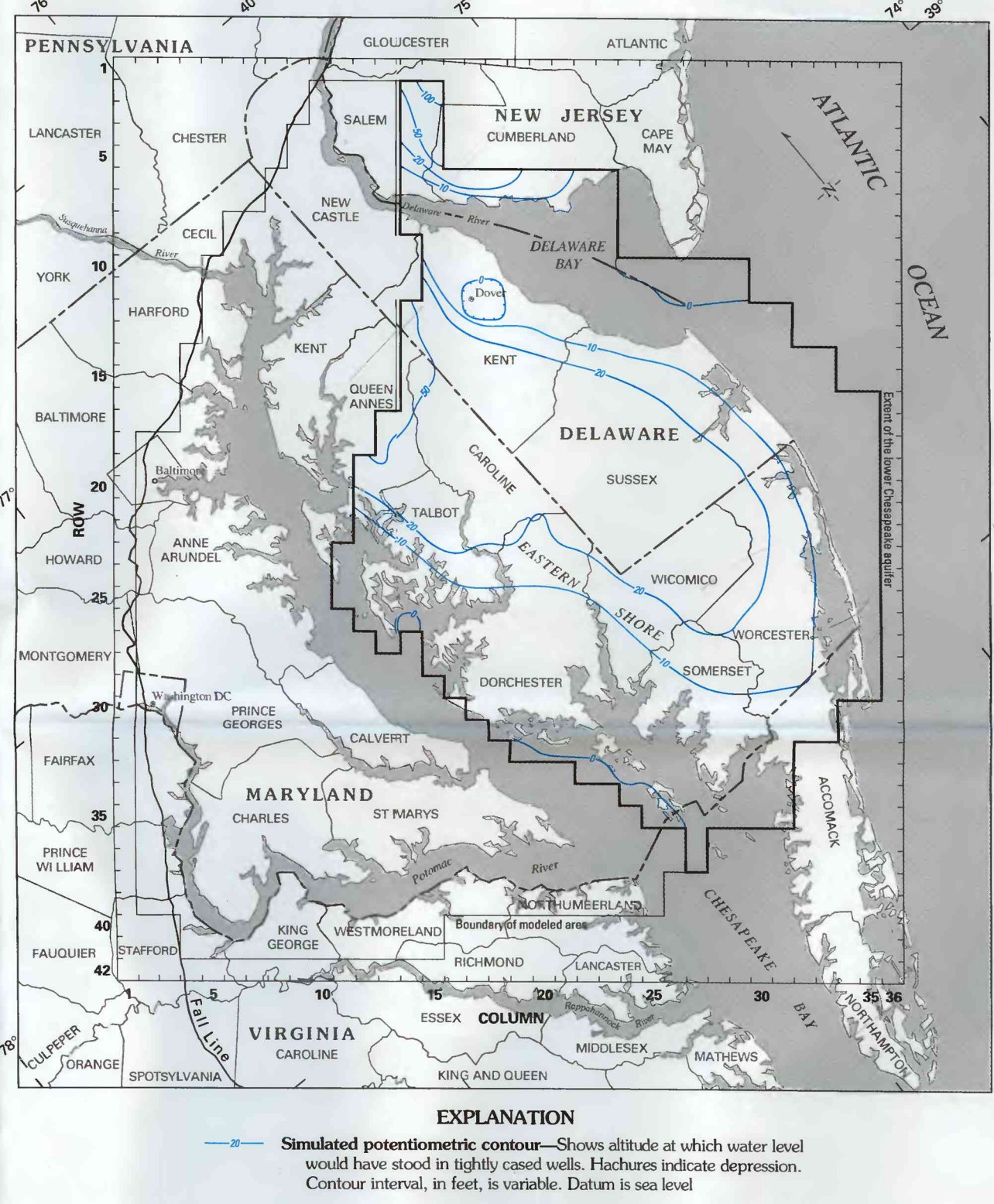
G. Simulated and observed head for the lower Chesapeake aquifer at well TA B1 73



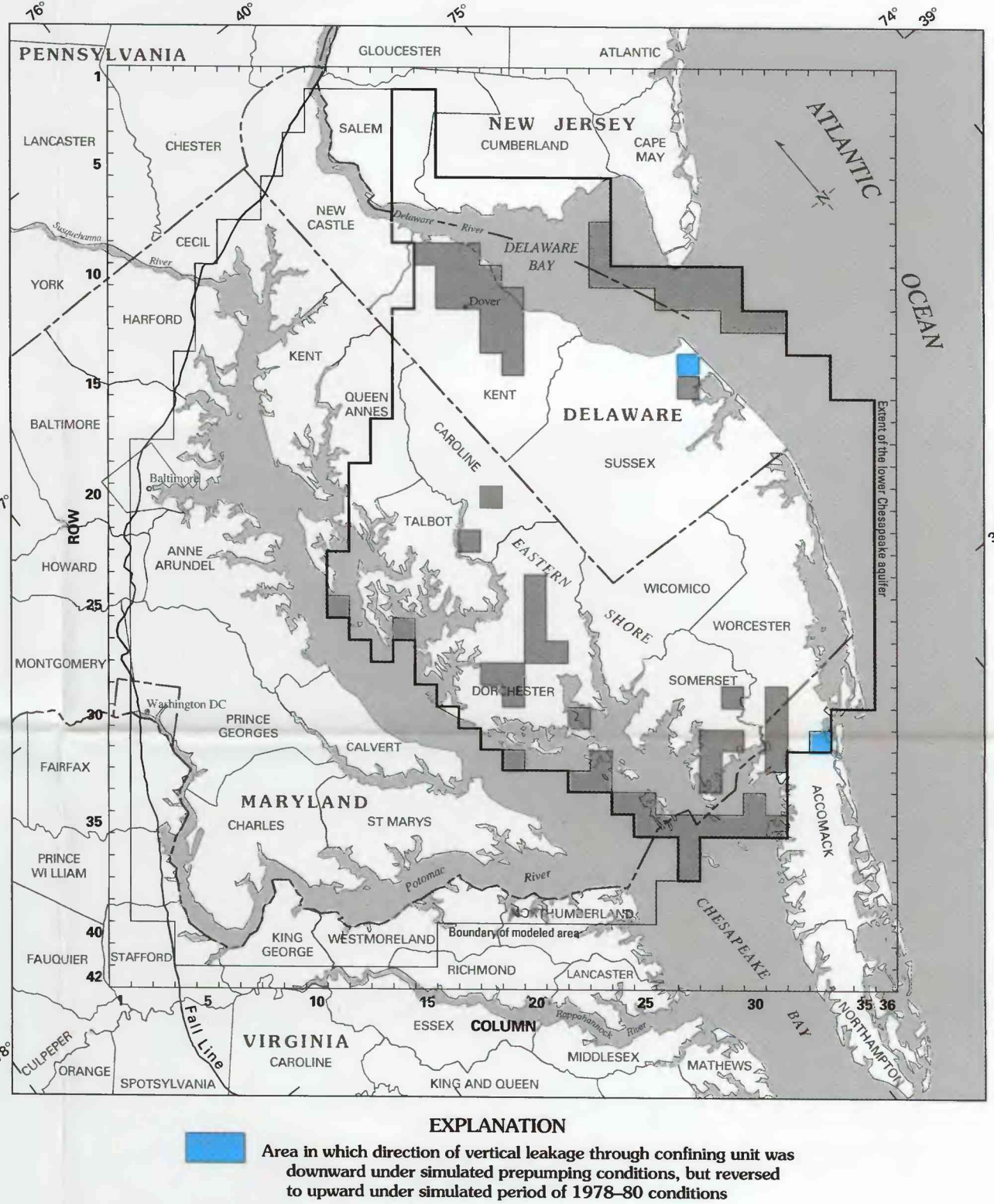
H. Simulated and observed head for the lower Chesapeake aquifer at well M1 15 22



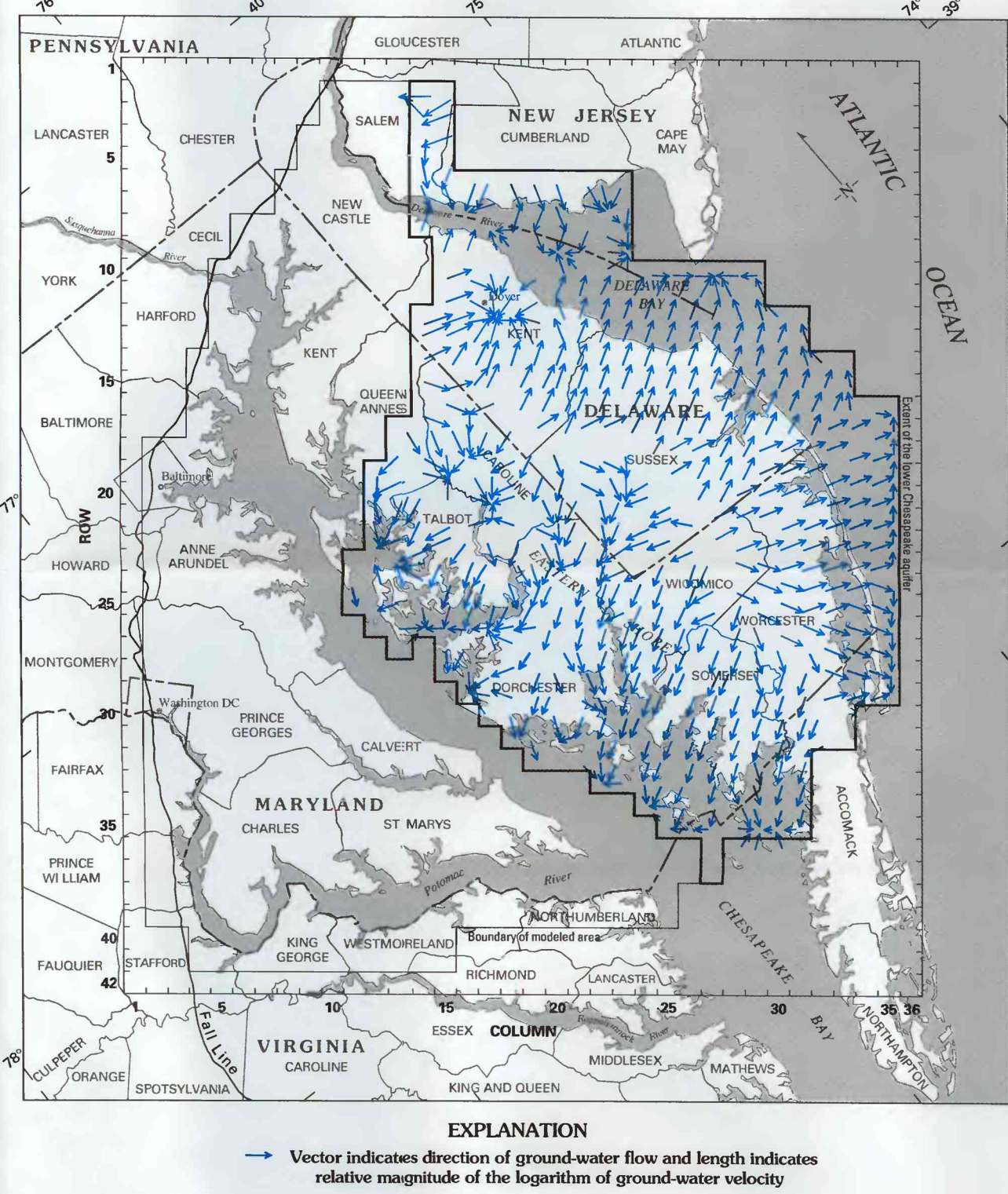
F. Location of wells for accompanying hydrographs



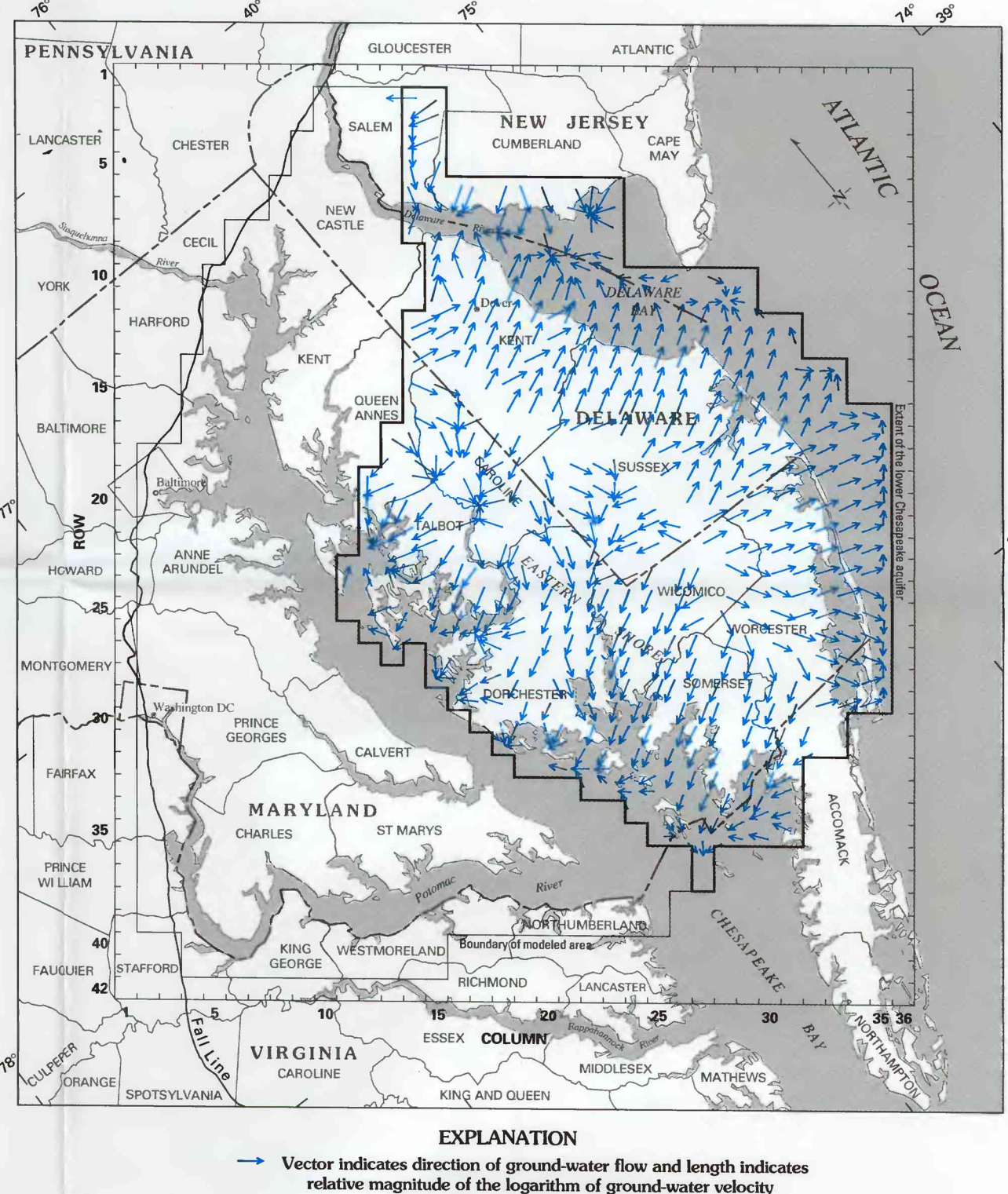
I. Simulated heads of the lower Chesapeake aquifer for pumping period 9, 1973-77



J. Reversals in the direction of vertical flow through the St. Marys confining unit, from simulations of prepumping conditions to pumping conditions during 1978-80



K. Simulated direction and magnitude of ground-water flow in the lower Chesapeake aquifer during pumping period 10, 1978-80



L. Simulated direction and magnitude of ground-water flow in the lower Chesapeake aquifer during prepumping conditions

M. Ground-water budget analysis of the lower Chesapeake aquifer by simulation

Principal sources and sinks	Prepumping				Pumping Period 10, 1978-80				Percent change from prepumping
	Source	Cubic feet per second	Percentage of sources	Sink	Source	Cubic feet per second	Percentage of sources	Sink	
Areal ground-water recharge	296.7	84.8	—	—	296.7	83.6	0	—	—
Surface water	0	0	266.8	88.8	0	0	—	258.8	88.5
Leakage through confining units	37.7	12.7	32.5	11.1	42.8	14.3	13.5	28.5	9.5
Constant-flux boundary	8.1	2.7	0.3	0.1	6.4	2.1	-21.8	2.2	0.7
Storage	0	0	0	0	-0.1	-0.1	—	-0.1	-0.1
Pumpage	—	—	—	—	0	0	—	—	—
Total	296.4	100.0	300.0	100.0	300.0	100.0	1.2	299.1	100.0
Percent error	0.3				0.3				

