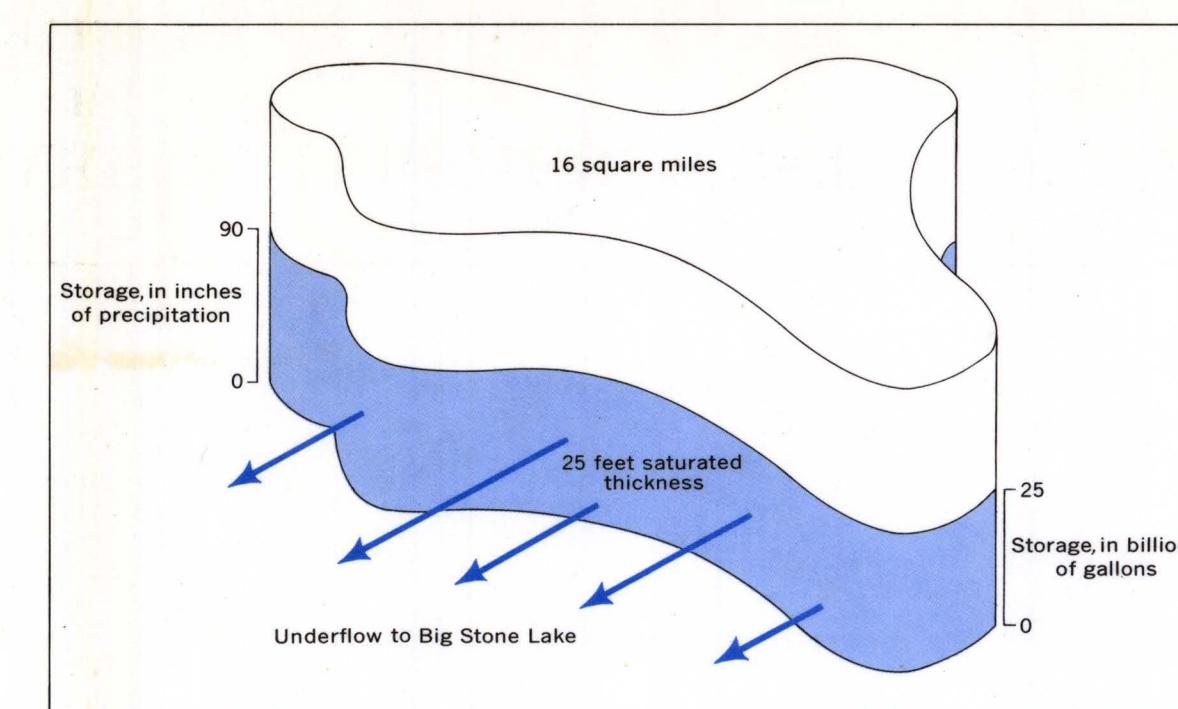
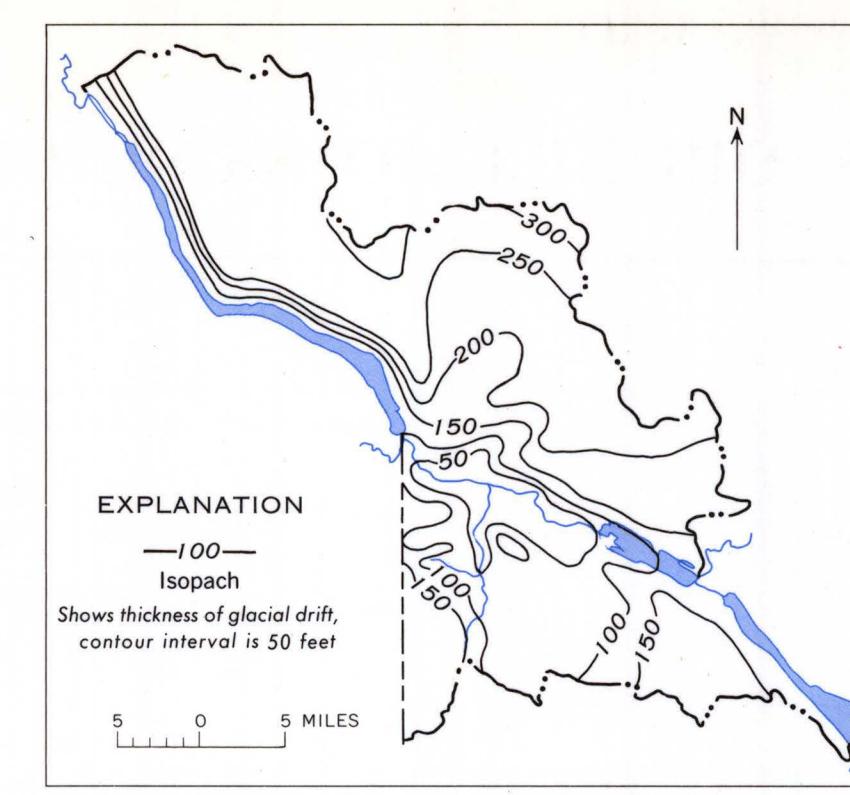
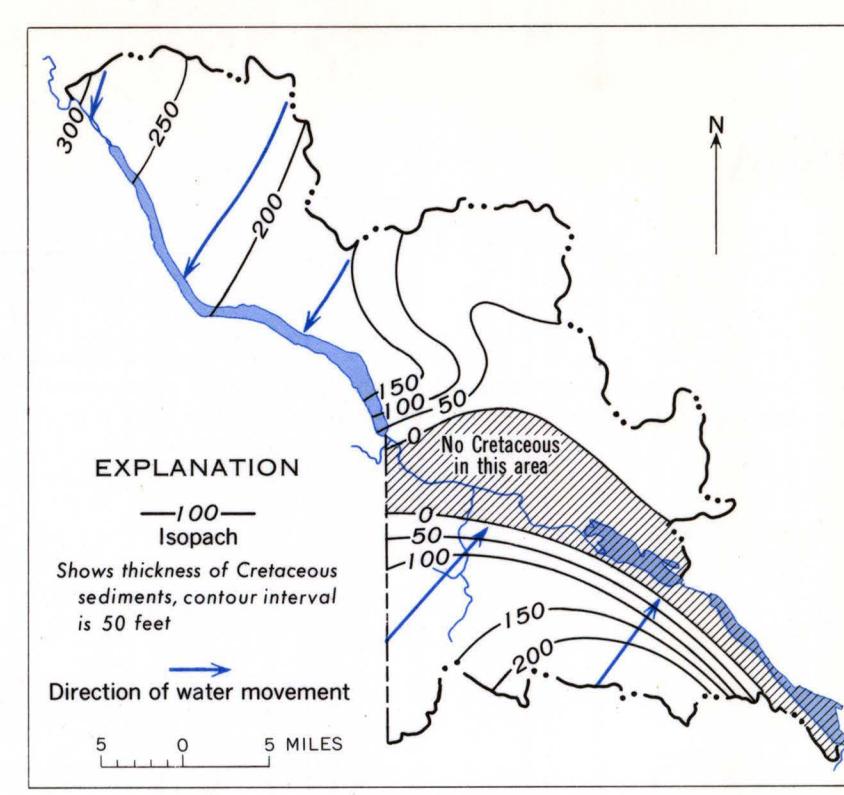
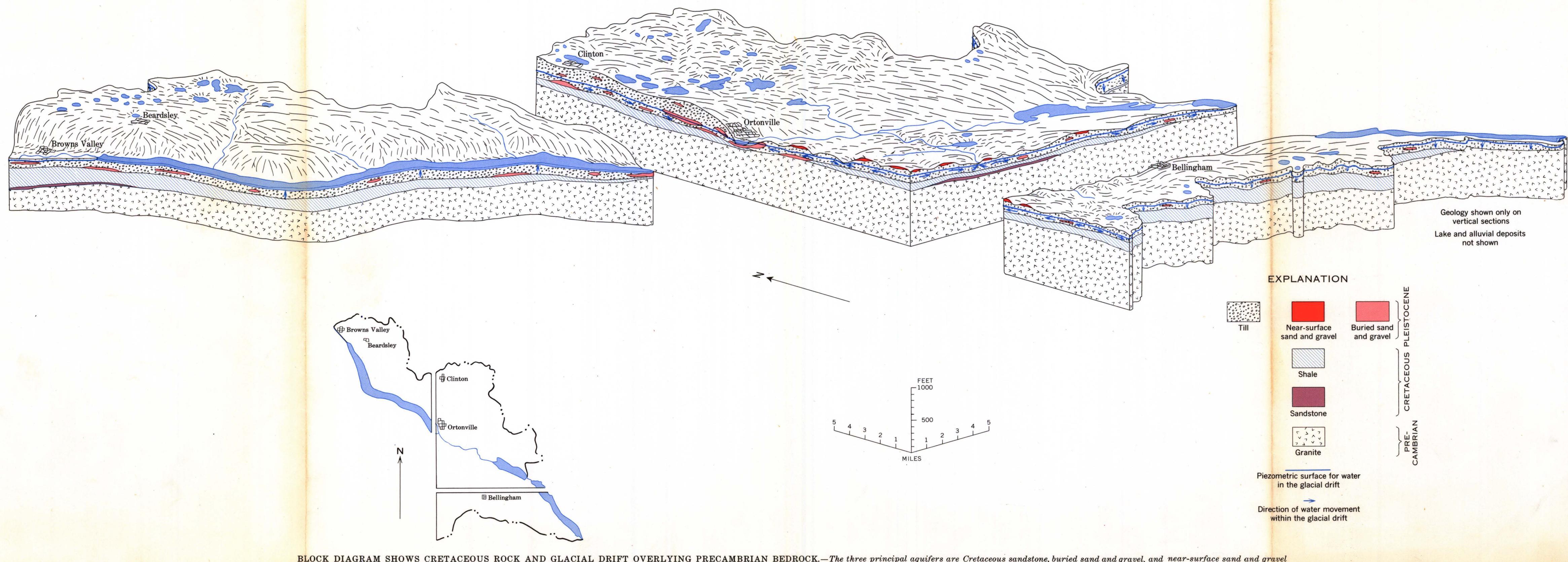


GROUND WATER

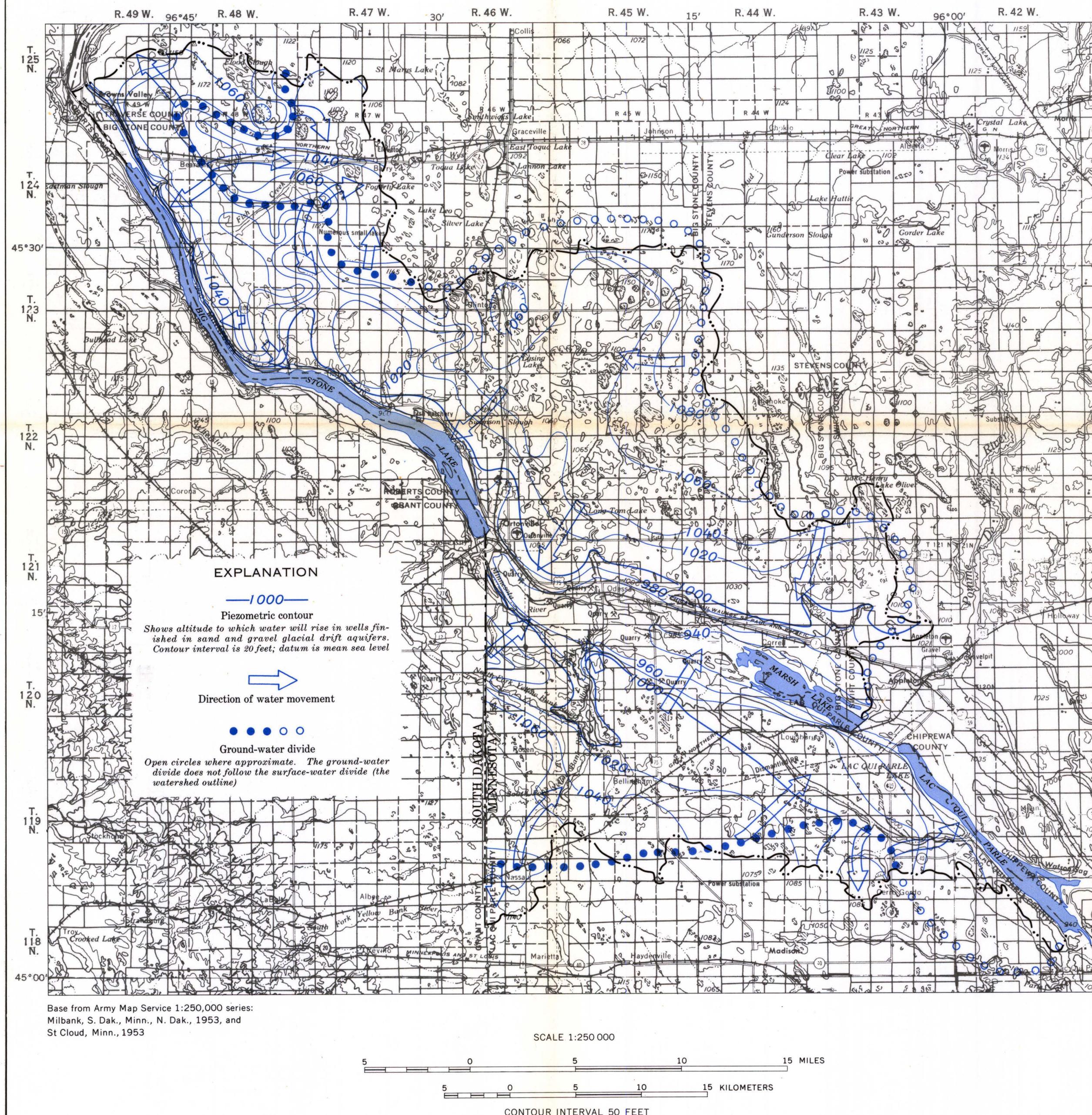


AN EXAMPLE OF THE NEAR-SURFACE SAND AND GRAVEL AQUIFER NEAR BEARDSLEY.—Using an assumed permeability, it is calculated from Darcy's Law that about one billion gallons of ground water leaves this aquifer each year

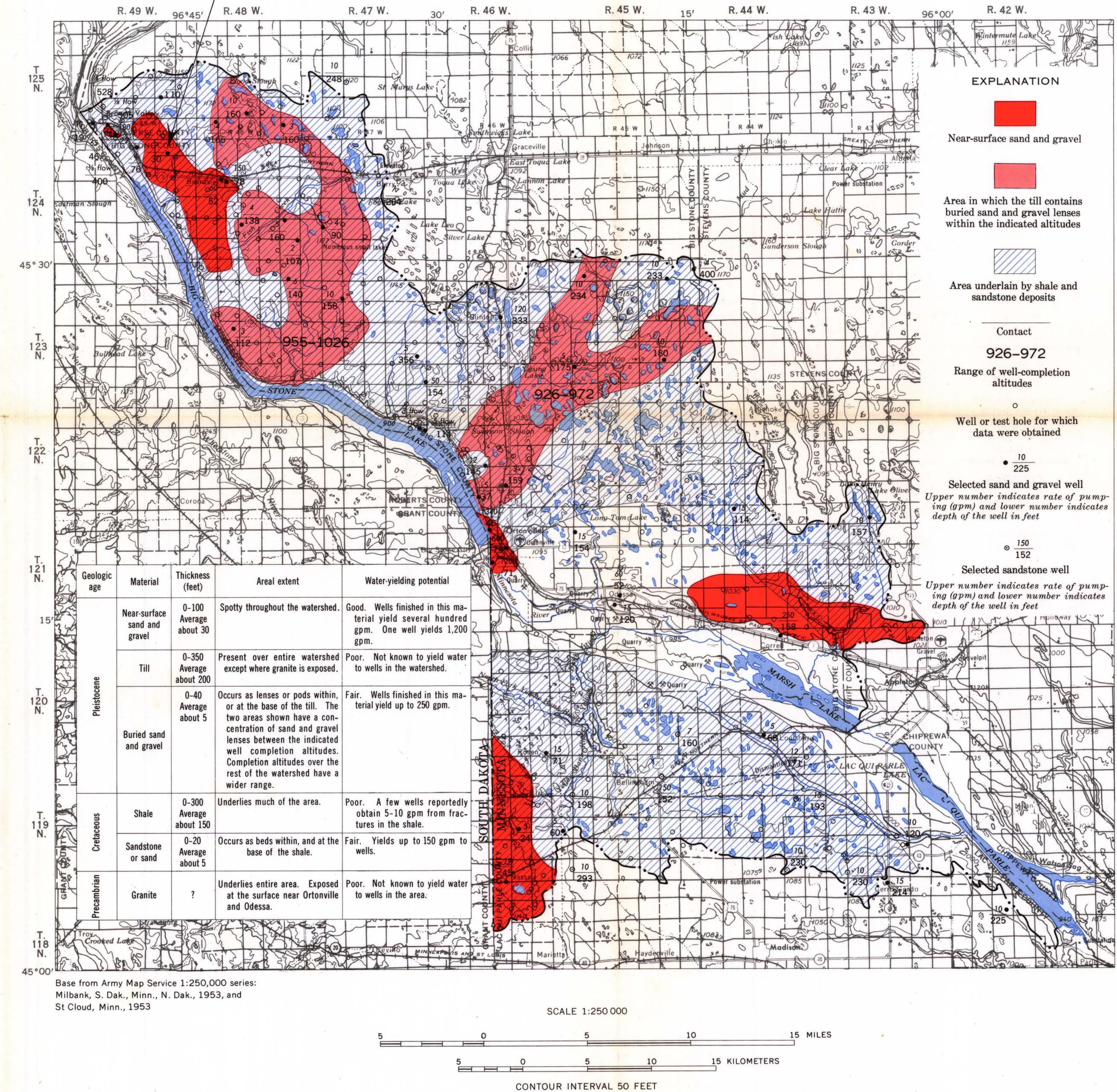
WELL YIELD AND SPECIFIC CAPACITIES INDICATE THE GROUND WATER POTENTIAL OF THE THREE AQUIFER TYPES.—Five pumping tests have been conducted in the watershed (See municipal water-supply table)

Aquifer	Domestic wells (small diameter)		Municipal wells		Industrial or commercial wells	
	Range	Average	Range	Average	Range	
Near-surface sand and gravel	Yield gpm 3	.....	50-400	220	19-1,200	
	Specific capacity (gpm/ft of drawdown) <1	.....	2-75	30	38-150	
	No. of wells 1 well	.....	9 wells	2 wells ¹		
Buried sand and gravel	Yield gpm 4-125	15	250-260	255	.....
	Specific capacity (gpm/ft of drawdown) <1-15	3	13-21	17	.....
	No. of wells 19 wells	.....	2 wells	.....	
Cretaceous sandstone and shale	Yield gpm 7-15	11	150	.....	.....
	Specific capacity (gpm/ft of drawdown) <1-10	2	7	.....	.....
	No. of wells 7 wells	.....	1 well	.....	

¹Wells are at Nassau (19 gpm) and Big Stone Canning Company



GROUND WATER WITHIN GLACIAL DRIFT MOVES TOWARD THE MINNESOTA RIVER AND ITS RESERVOIRS.—Most of the movement is through low-permeability till. Widely-spaced contours indicate either flat topography or highly-permeable sediments. Evapotranspiration is highest where the piezometric surface is near the land surface



AREAL EXTENT OF AQUIFERS.—The best aquifers are the near-surface sands and gravels, although moderate quantities of ground water can be obtained from other aquifers almost anywhere within the watershed