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WR;  
no. 77-120

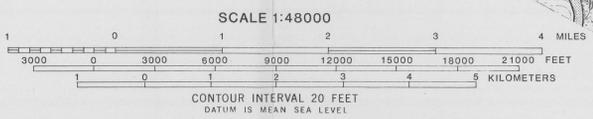


EXPLANATION

Map units described below indicate the expected yield of individual wells as they located by a systematic program of exploratory drilling and aquifer testing. The delineation of map units constitutes the best approximation from available data, but within each unit local variation in saturated thickness and hydraulic conductivity may cause considerable variation in well yield.

- Areas underlain chiefly by coarse-grained saturated stratified deposits (medium sand to gravel) that are greater than 20 ft (6 m) thick. The large hydraulic conductivities of these materials should enable individual wells to yield 300 gal/min (11 L/s) to 1,000 gal/min (38 L/s) sufficient to meet large commercial, industrial or municipal requirements.
- Areas underlain chiefly by saturated stratified deposits ranging in grain size from fine sand to gravel, with a total thickness of more than 20 ft (6 m). Coarser materials are generally not as prevalent or as thick as in the unit above and hydraulic conductivities are generally lower. Individual wells should yield 50 gal/min (2 L/s) to 200 gal/min (8 L/s), sufficient to meet light industrial and small public-supply requirements.
- Areas underlain chiefly by saturated fine-grained stratified deposits (clay, silt, and fine sand) with a total thickness of more than 20 ft (6 m). Opportunities for development of water supplies are limited to the thin lenses of sand and gravel that may occur locally. Individual wells would probably yield less than 50 gal/min (2 L/s).
- Areas underlain chiefly by till, bedrock, or local stratified deposits having less than 20 ft (6 m) of saturated thickness. Individual large-diameter dug wells in till may yield 1 gal/min (0.06 L/s) to 3 gal/min (0.19 L/s). The median yield of domestic bedrock wells is 5 gal/min (0.32 L/s) with individual yields ranging from a few pints to 300 gal/min (11 L/s), and wells in shallow stratified deposits may yield 5 gal/min (0.32 L/s).

○ Test site where yield of aquifer has been estimated. (See CBW 7 table 3.)



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