

GEOLOGICAL SURVEY, WATER RESOURCES DIVISION

WRSIC Abstract

TITLE:        POTENTIOMETRIC SURFACE OF THE UPPER PATAPSCO AQUIFER IN  
SOUTHERN MARYLAND, SEPTEMBER 1998

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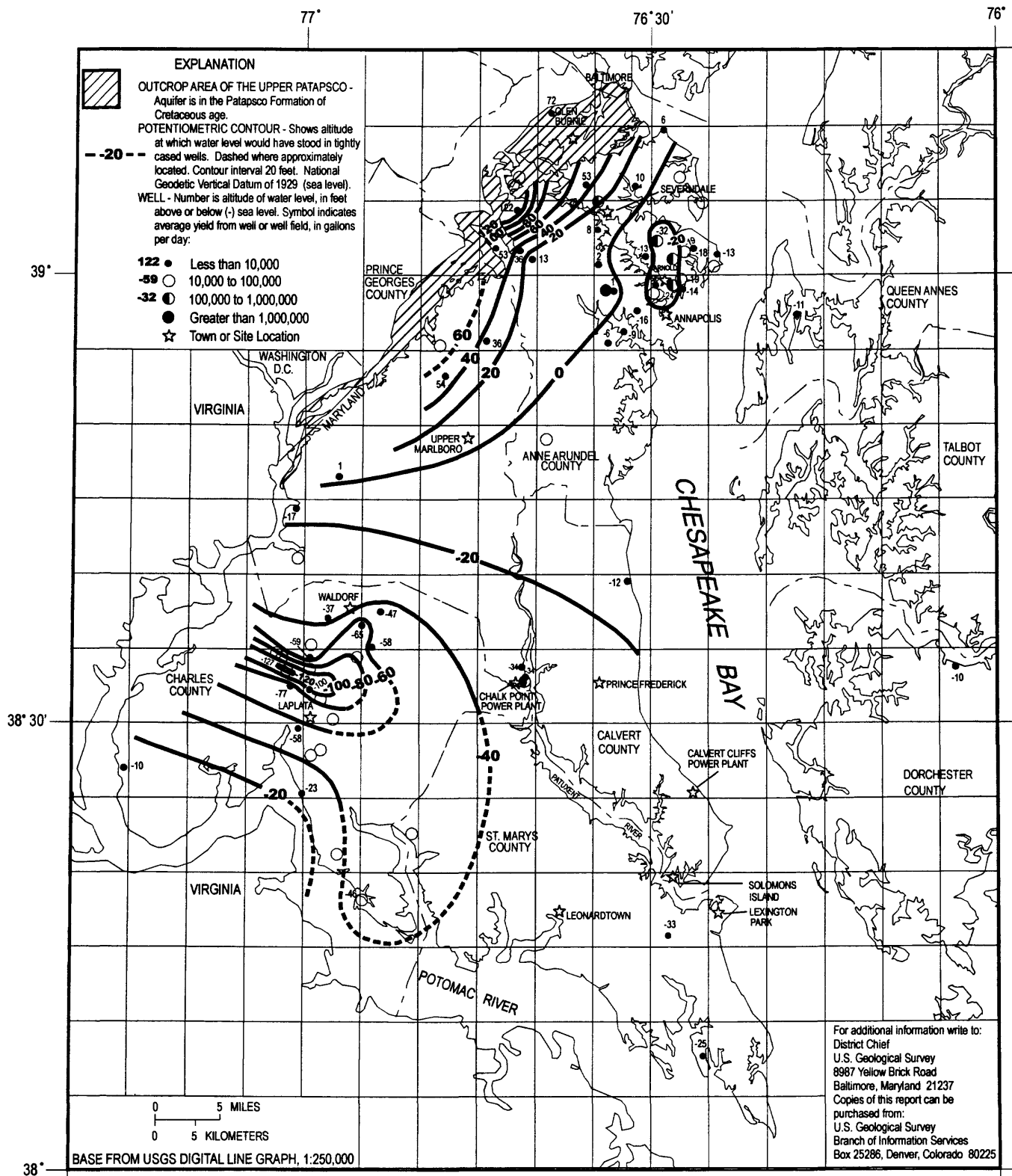
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DESCRIPTORS: \*Potentiometric surface,        \*Artesian aquifer,        \*Coastal  
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ABSTRACT:

This report presents a map showing the potentiometric surface of the Upper Patapsco aquifer in the Patapsco Formation of Cretaceous age in Southern Maryland during September 1998. The map was prepared from water-level measurements in 46 wells. The potentiometric surface was 122 feet above sea level near the northern boundary and outcrop area of the aquifer in a topographically high area of Anne Arundel County, and 54 feet above sea level in a similar setting in Prince Georges County. From these high areas, the potentiometric surface declined to the southeast toward large well fields in the Annapolis area and Arnold, and from all directions toward a cone of depression southwest of Waldorf. Ground-water levels declined to 26 feet below sea level in the Annapolis area, 32 feet below sea level at Arnold, and 127 feet below sea level southwest of Waldorf.



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