UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
TEMPORARY STATE COMMISSION ON TUG HILL

WATER-RESOURCES INVESTIGATIONS REPORT 86-4040
SHEET 1 OF 3 - LOCATION OF WELLS, SPRINGS, AND TEST HOLES

PREFACE

The three maps in this set were prepared in 1966-68 as part of a study on the water resources of the Black River basin in cooperation with the New York State Department of Environmental Conservation. These maps were not included in the final report (Waller and Ayer, 1975), but the two well-yield maps were combined on a page-size map at about 1:5,000,000 scale. The U.S. Geological Survey subsequently published a surficial geology map (Waller, 1976) at 1:125,000 scale showing the extent of glacial deposits and well locations.

INTRODUCTION

New York State's growing need to develop a comprehensive ground-water management plan for the protection of aquifers led in 1985 to a cooperative program with the New York State Department of Environmental Conservation to publish the maps from the 1966-68 study. These maps will help State and local agencies in appraisals of the extent and water-yielding potential of aquifer systems and in the development of ground-water-quality protection plans.

The data are presented on three maps showing well locations (sheet 1), well yield from bedrock aquifers (sheet 2), and well yield from unconsolidated aquifers (sheet 3). The well-location map (sheet 1) shows locations of all wells represented in the initial report (Waller and Ayer, 1975). The well yields given on the bedrock-aquifer map (sheet 2) were recorrelated with the most recent New York State geologic maps (Isachsen and others, 1970; Isachsen and Fisher, 1970); the well yields shown on the unconsolidated-aquifer map (sheet 3) are correlated with a surficial-geology map of the area given in Waller (1976).

The data and interpretations shown on these maps are based on results from the original 1966-68 study; thus the maps do not include data from new wells or any recent maps of surficial geology.

LOCATION OF WELLS, SPRINGS, AND TEST HOLES

The wells, springs, and test holes shown on this map were inventoried in the 1966-68 study (Waller, 1975). The well data are included in a table in that report. The reader can use this map to reference data in the 1975 report.

REFERENCES CITED

Isachsen, Y. W., and Fisher, D. W., 1970, Geologic map of New York--Adirondack sheet: New York State Museum and Science Service Map and Chart Series, no. 15.

Isachsen, Y. W., Fisher, D. W., and Rickard, L. V., 1970, Geologic map of New York--Hudson-Mohawk sheet: New York State Museum and Science Service Map and Chart Series no. 15.

Waller, R. M., 1976, Surficial geologic map of the Black River basin, New York: U.S. Geological Survey Miscellaneous Field Studies Map MF-728a, 1 sheet.

Waller, R. M., and Ayer, G. R., 1975, Water resources of the Black River basin, New York: New York State Department of Environmental Conservation, BRB-1, 205 p.

EXPLANATION

WELLS, SPRINGS, AND TEST HOLES THAT TAP UNCONSOLIDATED MATERIAL--Numbers beside symbols are seconds of latitude followed by seconds of longitude. Degrees and minutes of latitude and longitude are shown in margins of the map grid

- ● 42-20 — Well
- ● 04-10S — Spring
- ● 13-13B — Test hole

WELLS AND SPRINGS THAT TAP BEDROCK--Numbers beside symbols are seconds of latitude followed by seconds of longitude. Degrees and minutes of latitude and longitude are shown in margins of the map grid

- ○ 36-20 — Well
- ○ 14-01S — Spring
- ✧ 30-50 — OIL OR GAS TEST HOLE--Numbers beside symbol are seconds of latitude followed by seconds of longitude. Degrees and minutes of latitude and longitude are shown in margins of the map grid
- ——— BASIN BOUNDARY

0 1 2 3 4 5 6 7 8 9 10 MILES
0 1 2 3 4 5 6 7 8 9 10 KILOMETERS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

Base from U.S. Geological Survey
Topographic maps, 1:62,500 scale

GROUND-WATER AVAILABILITY IN THE BLACK RIVER BASIN, NEW YORK

By
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Hydrology by R.M. Waller, 1968