DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
NEW YORK STATE DEPARTMENT OF HEALTH

OPEN-FILE REPORT 82-112
(SHEET 4 OF 6)

# POTENTIOMETRIC SURFACE

By

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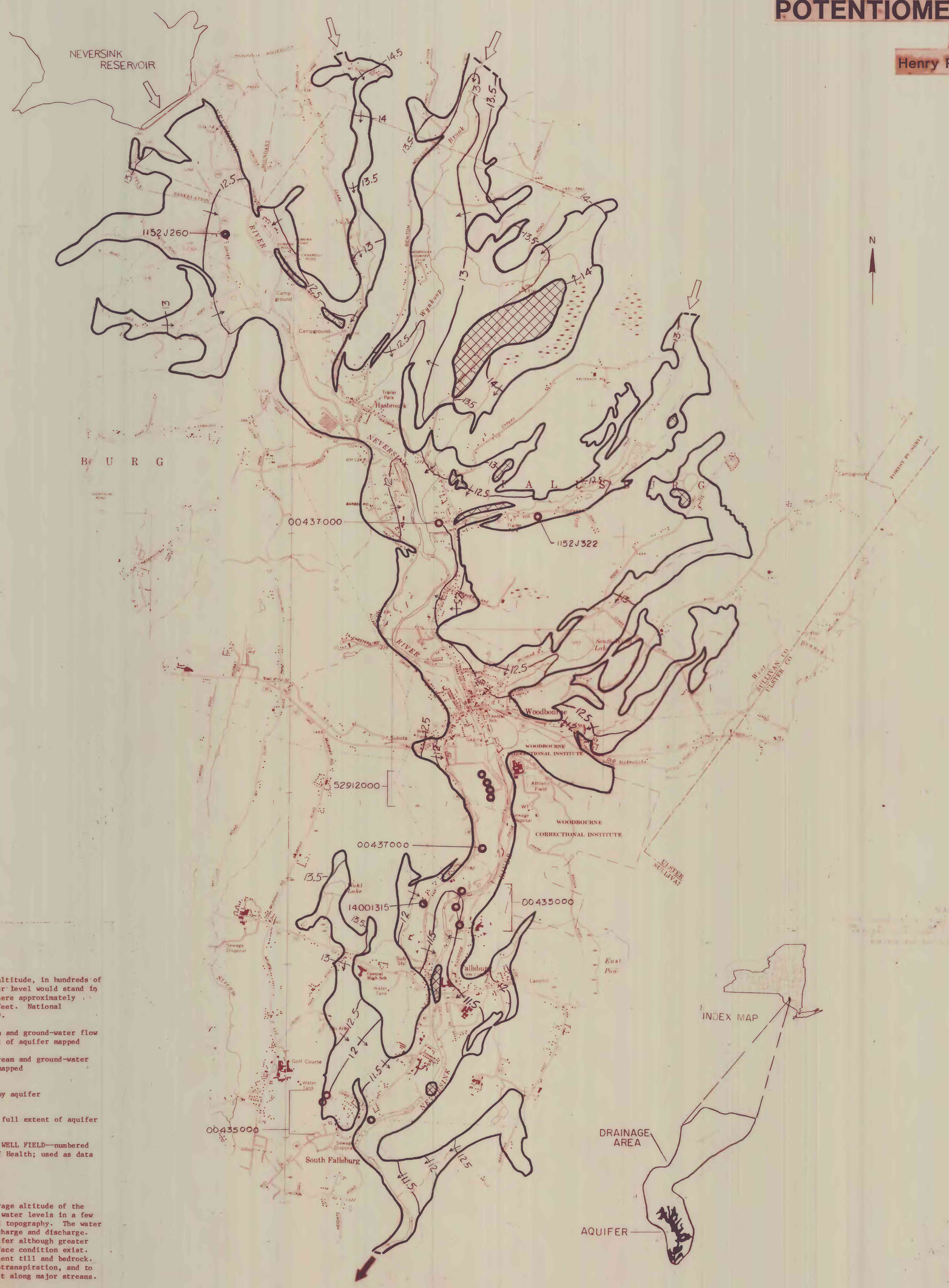


## EXPLANATION

140 — POTENTIOMETRIC CONTOUR--shows altitude, in hundreds of feet above datum, at which water level would stand in tightly cased wells. Dashed where approximately located. Contour interval 50 feet. National Geodetic Vertical Datum of 1929.

MAJOR INFLOW TO AQUIFER--stream and ground-water flow from main valleys beyond extent of aquifer mapped

MAJOR OUTFLOW FROM AQUIFER--stream and ground-water flow beyond extent of aquifer mapped

TILL/BEDROCK HILL--surrounded by aquifer

AQUIFER BOUNDARY--dashed where full extent of aquifer is not shown

00437000 COMMUNITY WATER SYSTEM WELL OR WELL FIELD--numbered by New York State Department of Health; used as data point

## NOTE

The contours represent the estimated average altitude of the water table in the principal aquifer based on water levels in a few wells (Soren, 1961), surface-water levels, and topography. The water table fluctuates seasonally in response to recharge and discharge. Recharge occurs generally over the entire aquifer although greater amounts occur where highly permeable land-surface condition exist. Recharge also occurs from underlying and adjacent till and bedrock. Discharge occurs principally to streams, evapotranspiration, and to pumping wells. Seasonal fluctuations are least along major streams.

## REFERENCE CITED


Soren, Julian, 1961, The ground-water resources of Sullivan County, New York: New York State Water Resources Commission Bulletin GW-46, 66 p.


BASE FROM NEW YORK STATE DEPARTMENT OF TRANSPORTATION GRAHAMSVILLE, N.Y., 1976; LIBERTY EAST, N.Y., 1976; MONTICELLO, N.Y., 1976; WOODRIDGE, N.Y., 1976. 1:24,000

# GEOHYDROLOGY OF THE VALLEY-FILL AQUIFER IN THE SOUTH FALLSBURGH-WOODBOURNE AREA, SULLIVAN COUNTY, NEW YORK

1982

HYDROLOGY MAPPED IN 1981