

280 139W
METTLE FALLS

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF MINNESOTA
DEPARTMENT OF ADMINISTRATION

HALE BAY QUADRANGLE
MINNESOTA-ONTARIO
7.5 MINUTE SERIES (TOPOGRAPHIC)



280 139W
METTLE FALLS

Maped, edited, and published by the Geological Survey
Control by USGS, USC&GS, and International Boundary Commission
Topography by photogrammetric methods from aerial
photographs taken 1966. Field checked 1967
Canadian portion copied from advance print, Namakan Lake quadrangle
(1:40 000) 1964, Surveys and Mapping Branch, Department of
Mines and Technical Surveys
Depth curves compiled from charts furnished
by Minnesota Department of Conservation
Polyconic projection. 1927 North American datum
10 000-foot grid based on Minnesota coordinate system, north
zone 1000-meter Universal Transverse Mercator grid ticks,
zone 15, shown in blue
To place on the predicted North American Datum 1983
move the projection lines 5 meters north and

UTM GRID AND 1983 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET
There may be private inholdings within
the boundaries of the National or
State reservations shown on this map

THE U.S. PORTION OF THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST



HALE BAY, MINN.-ONT.
N4822.5—W9230/7.5

Revisions shown in purple compiled from aerial
photographs taken 1981 and other sources
This information not field checked. Map edited 1983
1967
PHOTOREVISED 1983
DMA 7480 1 NE—SERIES V872

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