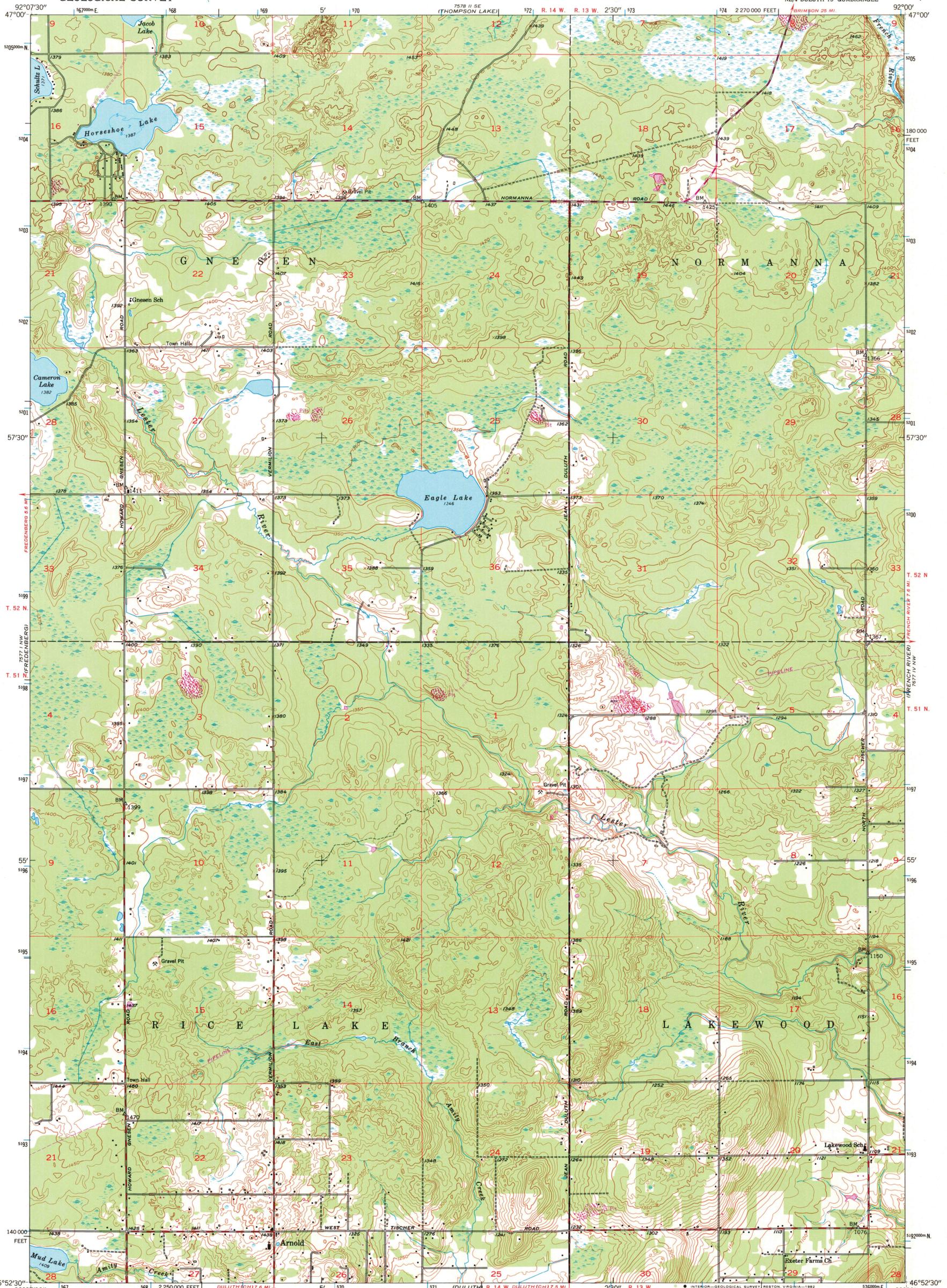


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

ARNOLD QUADRANGLE
MINNESOTA—ST. LOUIS CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
NE/4 DULUTH 15' QUADRANGLE



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography from aerial photographs by Kesh plotter
Aerial photographs taken 1952. Field check 1953

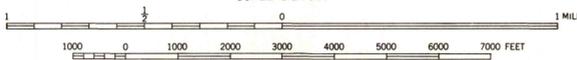
Depth curves compiled from charts furnished by
Minnesota Department of Conservation

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

Revisions shown in purple compiled in cooperation with the
State of Minnesota from aerial photographs taken 1969
This information not field checked

Map photorevised 1981
No major culture or drainage changes observed

SCALE 1:24000



CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

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

To place on the predicted North American Datum 1983
move the projection lines 7 meters north and
14 meters east as shown by dashed corner ticks

ROAD CLASSIFICATION
Medium-duty ——— Light-duty ———
Unimproved dirt - - - - -

ARNOLD, MINN.
NE/4 DULUTH 15' QUADRANGLE
N4652-5-W9200/7.5

1953

PHOTOREVISED 1969
PHOTOINSPECTED 1981
AMS 7577 1 NE—SERIES V872

FEB 24 1983

1800