EXPLANATION

SILURIAN(?)

Hovey formation, in part
Gray-green upper slate, Shsu, overlies the upper manganiferous unit, mhu, of the hematitic Maple-Hovey and Central Hovey manganese deposits. The middle manganiferous unit, mhm, is underlain by the lower manganiferous unit, mhl, which is underlain by the lower green slate, Shsl. A small hematitic manganese deposit, mh, occurs as a lens at about the same stratigraphic horizon as the Central Hovey manganese deposit. Green slate encloses the hematitic Southern Hovey manganese deposit, mhs, a lenticular hematitic manganese deposit, mhh, and lenticular siliceous carbonate manganese deposits, msc

Magnetite-bearing rocks

Gradational contact
Approximate between trenches

Possible trace of stratigraphic horizon

Inferred fault
Showing dip and relative movement; U, upthrown side; D, downthrown side

Anticline
Showing trace of axial plane and direction of plunge of axis

Syncline
Showing trace of axial plane and direction of plunge of axis; dashed where uncertain

Overturned anticline
Showing trace of axial plane, direction of dip of limbs, and general direction of plunge of axis; dashed where uncertain

Doubly plunging anticline
Showing trace of axial plane and direction of plunge of the ends of the fold

Doubly plunging syncline
Showing trace of axial plane and direction of plunge of the ends of the fold

Minor anticlinal fold

Minor syncline fold

Strike and dip of beds

Strike and dip of overturned beds

Strike of vertical beds

Strike and dip of cleavage

Strike of vertical cleavage

Bearing and plunge of lineation
Axis of minor crenulations

Magnetic contours
Contour interval 100, 1000, and 10,000 gammas

Trench
Manganese Ore Company

Trench
U. S. Bureau of Mines

Inclined diamond-drill hole
U. S. Bureau of Mines
Showing the number of the hole, bearing, and horizontal projection. Inclination of the drill hole from the horizontal given along the bearing line

Vertical diamond-drill hole
U. S. Bureau of Mines
Showing the number of the hole, bearing, and horizontal projection resulting from its deviation from the vertical. Inclination of the hole from horizontal at the bottom of the hole is indicated at the end of the bearing line

A–D
Fault blocks of the Central Hovey deposit, described in text

E–H
Manganese deposits described in text

I–VI
Second-order folds, described in text

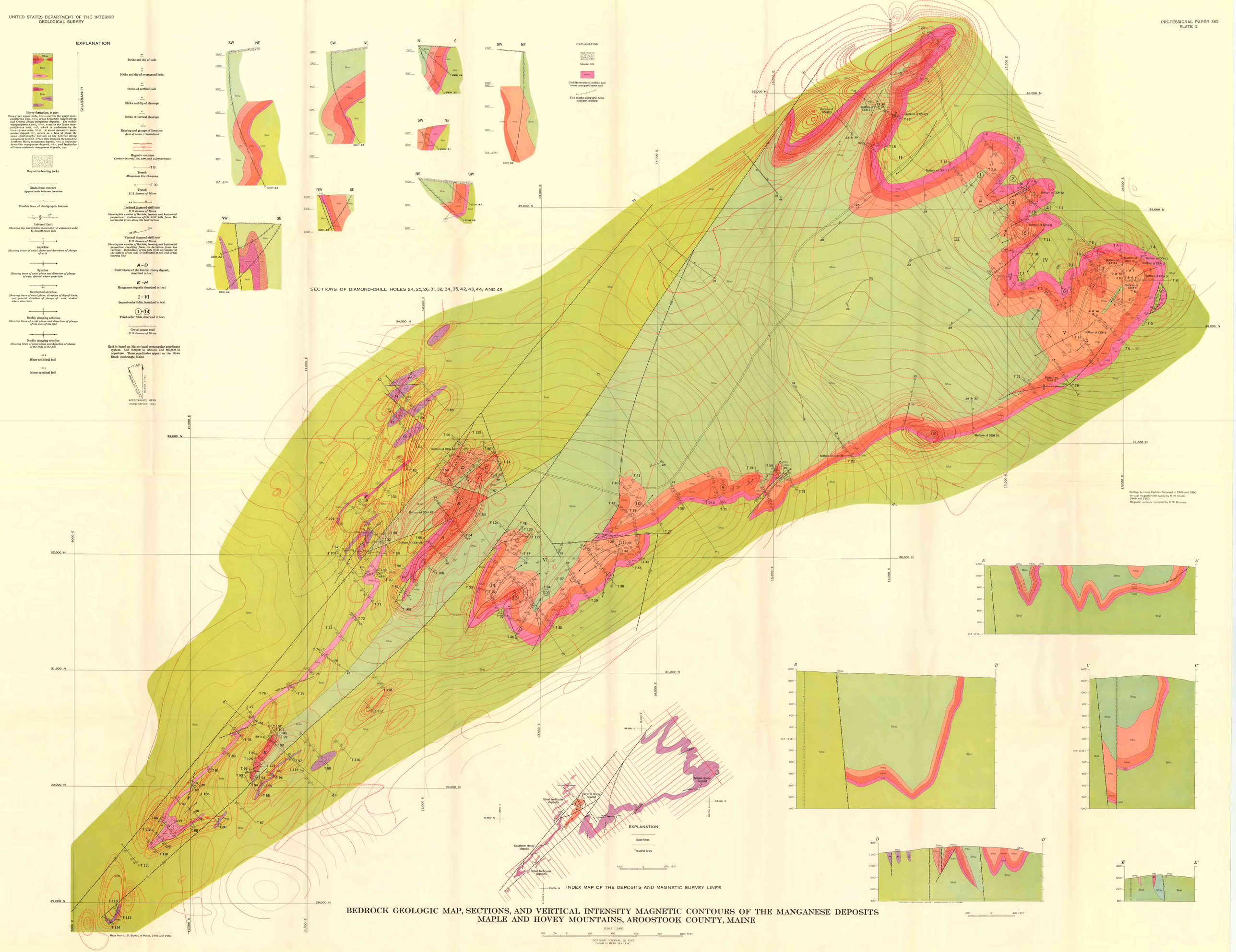
1–14
Third-order folds, described in text

Gravel access road
U. S. Bureau of Mines

Grid is based on Maine (east) rectangular coordinate system. Add 900,000 to latitude and 600,000 to departure. These coordinates appear on the Howe Brook quadrangle, Maine

APPROXIMATE MEAN DECLINATION, 1961

SECTIONS OF DIAMOND-DRILL HOLES 24, 25, 26, 31, 32, 34, 35, 42, 43, 44, AND 45



Geology by Louis Pavlides. Surveyed in 1949 and 1950
Vertical magnetometer survey by R. M. Shuler, 1949 and 1950
Magnetic contours compiled by R. W. Bromery

Base from U. S. Bureau of Mines, 1949 and 1950

INDEX MAP OF THE DEPOSITS AND MAGNETIC SURVEY LINES

BEDROCK GEOLOGIC MAP, SECTIONS, AND VERTICAL INTENSITY MAGNETIC CONTOURS OF THE MANGANESE DEPOSITS MAPLE AND HOVEY MOUNTAINS, AROOSTOOK COUNTY, MAINE

SCALE 1:2400

200 100 0 200 400 600 800 1000 FEET

CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL