EXPLANATION

- Quartz-spodumene-perthite-albite pegmatite, *Core*
- Perthite-spodumene-quartz pegmatite, *Third intermediate zone*
- Perthite-quartz-muscovite pegmatite, *Second intermediate zone*
- Perthite-quartz-muscovite-biotite pegmatite, *First intermediate zone*
- Perthite-quartz-albite pegmatite, *Fracture fillings*
- Albite-quartz-muscovite pegmatite, *Wall zone*
- Quartz-mica schist
- Quartz vein, showing dip
- Pegmatite contact, showing dip, *Dashed where approximately located*
- Vertical pegmatite contact
- Contact between pegmatite units, showing dip
- Limit of outcrop
- Fault, showing dip
- Strike and dip of beds
- Strike and dip of foliation
- Plunge of linear structure
- Plunge of roll
- Strike and dip of joints
- Strike of vertical joints
- Dump
- Rim of excavation
- Outline of underground workings
- Location of cut sample, *U. S. Bureau of Mines*
- Location of cut sample, *Metal Reserves*
- DDH 1 — U. S. Geological Survey diamond-drill hole

TRUE NORTH
MAGNETIC NORTH
15°
APPROXIMATE MEAN DECLINATION, 1961

DDH 1
DDH 2
DDH 3
DDH 4
DDH 5
Quartz vein
WINCH HOUSE
ORE CHUTE
ORE BIN

MAP SHOWING GEOLOGY OF PIT AND BENEATH OVERHANG TO NORTH OF PIT

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—10435

Geology and topography by L. R. Page and L. C. Pray, 1943
Revised by L. R. Page and M. H. Staatz, 1947

GEOLOGIC MAP, HELEN BERYL PEGMATITE, CUSTER COUNTY, SOUTH DAKOTA

20 0 20 40 60 80 100 FEET

CONTOUR INTERVAL 10 FEET
DATUM IS APPROXIMATE MEAN SEA LEVEL