



EXPLANATION

- Quartz-plagioclase-muscovite pegmatite, undivided
- Lithia mica-cleavelandite pegmatite
Zone 7 (core)
- Lithia mica-cleavelandite-quartz pegmatite
Replacement unit
- Muscovite-cleavelandite pegmatite
Replacement unit
- Quartz pegmatite
Zone 6 (fourth intermediate zone) and fracture-
fillings.
- Quartz-microcline pegmatite
Zone 6a (fourth intermediate zone)
- Cleavelandite-quartz pegmatite
Zone 5 (third intermediate zone)
- Perthite-cleavelandite-quartz pegmatite
Zone 4 (second intermediate zone)
- Cleavelandite-quartz-muscovite pegmatite
Zone 3 (first intermediate zone)
- Albite-quartz-muscovite pegmatite
Zone 2 (wall zone)
- Quartz-muscovite-plagioclase pegmatite
Zone 1 (border zone); shown on dip slopes only
- Quartz-mica schist

Note: Tourmaline-quartz pegmatite (fracture filling)
occurs on faults but is not shown on the map.

- Pegmatite contact, showing dip
Dashed where approximately located, question
marks where inferred.
- Contact between pegmatite units
Question marks where inferred
- Limit of exposure
- Fault, showing dip
Dashed where approximately located
- Vertical fault
Dashed where approximately located
- Strike of vertical joint
- Strike and dip of beds
- Strike of vertical beds
- Strike and dip of schistosity
- Strike of vertical schistosity
- Strike and dip of schistosity
and plunge of lineation.
- Plunge of roll
- Dump
- Rim of excavation
- Portal of main adit

U. S. Bureau of Mines diamond drill
hole number 3

Note: Faults and inferred contacts in dump areas
are projected to estimated position of base
of dump.
Underground workings are shown on figure 3.

FIGURE 2.— GEOLOGIC MAP, PEERLESS PEGMATITE, PENNINGTON COUNTY, SOUTH DAKOTA

40 20 0 40 80 120 Feet

Contour interval 10 feet

Datum is approximate mean sea level

Geology and topography by
M. H. Staatz and H. G. Stephens,
1947 and D. M. Sheridan, R. E.
Roadifer, and J. J. Norton, 1949