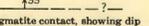
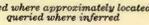
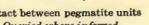
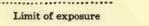
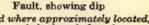
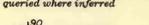
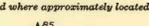
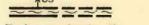
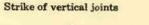
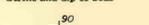
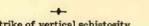
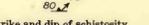
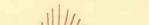


EXPLANATION

-  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 6b (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,
queried where inferred
-  Contact between pegmatite units
Queried where inferred
-  Limit of exposure
-  Fault, showing dip
-  Dashed where approximately located,
queried where inferred
-  Vertical fault
-  Dashed where approximately located
-  Fault zone, showing dip
-  Dashed where approximately located
-  Strike of vertical joints
-  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
-  U.S. Bureau of Mines diamond-drill hole

Note: Faults and inferred contacts in dump areas are projected to estimated position of base of dump

Underground workings are shown on plate 5

GEOLOGIC MAP, PEERLESS PEGMATITE, PENNINGTON COUNTY, SOUTH DAKOTA

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.
MR 6462

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

