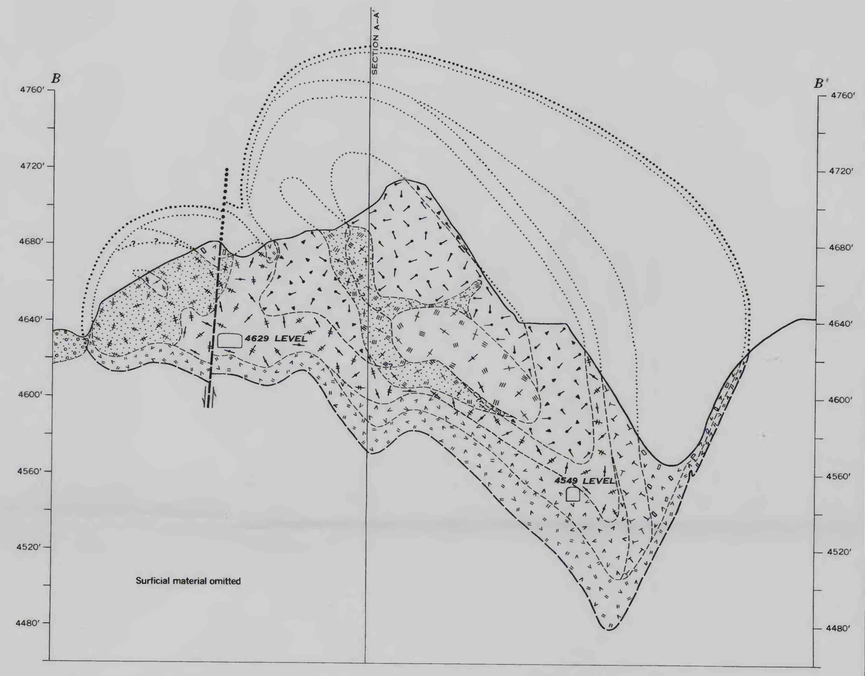

EXPLANATION

- Cleavelandite-quartz-lithia mica pegmatite — *Replacement unit*
- Cleavelandite-microcline-lithia mica pegmatite — *Replacement unit*
- Cleavelandite-microcline-lithia mica pegmatite — *Zone 7*
- Quartz-microcline pegmatite — *Zone 6*
- Quartz pegmatite — *Probably zone 5 on 4446 level; fracture-filling unit elsewhere*
- Quartz-microcline-spodumene pegmatite — *Zone 5*
- Quartz-cleavelandite-microcline-amblygonite pegmatite — *Zone 4 of the south segment*
- Quartz-cleavelandite pegmatite — *Zone 4 and fracture-filling unit of the north segment*
- Albite-quartz-phosphate pegmatite — *Part of zone 3*
- Quartz-albite pegmatite — *Zone 3c*
- Quartz-perthite-albite pegmatite — *Zone 3b*
- Perthite-quartz-albite pegmatite — *Zone 3a*
- Quartz-albite-muscovite pegmatite — *Zone 2*
- Albite-quartz-muscovite pegmatite — *Zone 1, shown only on dip slopes*
- Granulite
- Quartz-mica schist
- Area of outcrop
- Pegmatite contact, showing dip — *Dashed where approximately located; dotted where projected above the surface*
- Vertical pegmatite contact
- Contact between pegmatite units, showing dip — *Dashed where approximately located; dotted where projected above the surface*
- Relict zonal contact in replacement unit
- Fault, showing dip — *Dashed where approximately located. U, upthrown side; D, downthrown side*
- Vertical fault
- Strike and dip of beds
- Strike and dip of schistosity
- Strike and dip of pegmatite contact on dip slope
- Plunge of roll
- Underground workings
- Timbered workings
- Rim of cut
- Dump (*Map*, *Section*)
- Head of raise
- Foot of raise

APPROXIMATE MEAN DECLINATION, 1961

Geology of map and underground workings by J. J. Norton and L. R. Page, 1946
Sections by J. J. Norton, 1956

GEOLOGIC MAP, UNDERGROUND WORKINGS, AND SECTIONS OF THE HUGO PEGMATITE, KEYSTONE, SOUTH DAKOTA

50 0 50 100 150 200 FEET

CONTOUR INTERVAL 20 FEET
DATUM IS APPROXIMATELY MEAN SEA LEVEL

621497 O - 62 (In pocket)