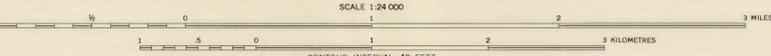


- CONTACT** - Showing dip. Long dashed where approximately located; short dashed where inferred or gradual; dotted where concealed
- CONTACT LOCATED BY GROUND MAGNETIC SURVEY**
- FAULT OR BARREN VEIN** - Showing dip. Long dashed where approximately located; short dashed where inferred; dotted where concealed
- SHEAR ZONE** - Showing dip. Short dashed where concealed
- LINEAMENT FROM AERIAL PHOTOGRAPHS** - Not obvious in outcrop
- DIKE** - Showing dip
- BROAD WARP** - Showing approximate position of crestline or troughline and the direction of plunge. Structure defined either by warped foliation or bent rock units. Wave length measured in hundreds of feet. Long dashed where approximately located; short dashed where inferred; dotted where concealed
- Anticlinal**
- Synclinal**
- SMALL-SCALE PLANAR AND LINEAR FEATURES** - Symbols may be combined
- Flunge of minor fold
 - Flunge of warp
 - Flunge of light fold - Chevron or tightly appressed broken fold
 - Strike and dip of planar structures in the Wall Mountain Tuff
 - Strike and dip of foliation
 - Inclined
 - Vertical
 - Strike and dip of cleavage
 - Bearing and plunge of mineral lineation
 - Inclined
 - Horizontal
 - Strike and dip of joint - Symbols may be grouped; point of measurement is at junction of symbols
 - Inclined
 - Inclined
 - Vertical
 - Greenish
 - Closely spaced joints
- VEIN** - Showing dip. Dashed where inferred; dotted where concealed
- TRACE OF GRANITE PEGMATITE** - Known from residual boulders in alluvium
- MINERALS OR MINERALIZED ROCKS** - Symbols may be combined
- Xen Xenotime
 - W Tungsten minerals
 - Mo Molybdenite
 - F Fluorite
 - B Barite
 - Q Quartz
 - Py Pyrite
 - Cu Copper minerals
 - Zn Zinc minerals
 - U Uranium minerals
 - T Tourmaline
 - G Vein with preisenized walls
 - Be Beryl - Shown only with pegmatite occurrences
- GREENISH ROCKS** - Locally contain beryllium, tungsten, and tin minerals
- Green pipe
 - Disseminated greisen
- MINES**
- Shaft
 - Adit or incline
 - Prospect pit
 - Trench

- DESCRIPTION OF MAP UNITS**
- QUATERNARY SEDIMENTS**
- Qa Alluvium (Holocene)
 - Qc Colluvium
 - Qoa Older alluvium
- TERTIARY SEDIMENTS**
- Tbt Boulder deposits along Tarryall Creek
 - Tg Gravel deposits on upland surfaces
 - Tt Andesite and rhyolite tuff of the thirty-nine mile
 - Tw Wall Mountain tuff (Oligocene)
 - Tb Boulder deposits (Eocene)
- REDSKIN GRANITE (PRECAMBRIAN Y)**
- Yrf Fine-grained facies - Forms central zone of Redskin stock
 - Yra Granite-splite - Forms Boomer cupola, outer zone of China Wall cupola, and local borders of Redskin stock. Also in dikes. Contains beryllium deposits
 - Yrpe Pegmatite
 - Yrpb Fine-grained porphyritic granite
 - Yrpi Porphyritic facies - Forms intermediate zones of Redskin stock and China Wall cupola. Contains beryllium deposits in Redskin stock
 - Yrg Granular facies - Forms outer zone of Redskin stock, inner zone of China Wall cupola, and small masses in the Pike's Peak Granite
 - Yrfm Fine- to medium-grained equigranular granite - Forms dikes and irregular bodies in and near the granular facies granite
 - Yrb Breccia - Redskin Granite matrix
- GABBRO AND QUARTZ MONZONITE (PRECAMBRIAN Y)**
- Yqm Quartz monzonite porphyry
 - Ydr Monzonite and quartz monzonite dike rocks
 - Ym Quartz monzonite and monzonite
 - Yg Gabbro
- PIKE'S PEAK GRANITE (PRECAMBRIAN Y)**
- Ytp Aplite
 - Ytpe Pegmatite
 - Ytbf Fine-grained biotitic granite
 - Ytfg Fine-grained granite - Generally associated with fine-grained porphyritic granite
 - Ytfd Fine-grained porphyritic granite
 - Ytfc Coarse porphyritic facies - Forms central zone in the batholith
 - Ytm Medium-coarse-grained granite - Heterogeneous unit which forms discontinuous outer zone of the batholith
 - Ytc Coarse subequigranular facies - Surrounds coarse porphyritic granite in the batholith
 - Ytqm Pike's Peak batholith - Quartz monzonite
- SILVER FLUME(?) QUARTZ MONZONITE (PRECAMBRIAN Y)**
- Ysm Fine- to medium-grained quartz monzonite
 - Ysf Fine-grained quartz monzonite - Commonly gneissic
 - Ysu Medium- to coarse-grained quartz monzonite
- LEUCOGNANITE TO LEUCOCRATIC QUARTZ MONZONITE (PRECAMBRIAN Y)** - Associated with quartz monzonite of Elevenmile Canyon
- Yle Quartz monzonite of Elevenmile Canyon (PRECAMBRIAN Y)
 - Ylcp GRANITE PEGMATITE (PRECAMBRIAN Y AND X) - Includes all granite pegmatite of pre-Pike Peak age. Dotted pattern shows trace of granite pegmatite known from residual boulders in alluvium
- MAFIC METAIGNEOUS ROCKS (PRECAMBRIAN X)**
- Xbh Biotite hornblende
 - Xmd Metadiorite
 - Xmg Metagabbro
- BOULDER CREEK(?) GRANODIORITE (PRECAMBRIAN X)**
- Xbm Quartz monzonite gneiss
 - Xbg Granodiorite gneiss
 - Xbd Quartz diorite gneiss
 - Xa AMPHIBOLITE (PRECAMBRIAN X) - Includes hornblende and anthophyllite rocks; locally grades into calc-silicate rock. Age relation to layered gneiss is uncertain locally
- LAYERED GNEISS (PRECAMBRIAN X)**
- Xlc Calc-silicate gneiss - Locally includes skarn, tactite-like rock, and quartzite
 - Xlb Fine-grained biotite gneiss
 - Xli Sillimanite-cordierite quartz gneiss
 - Xlm Sillimanite biotite-muscovite gneiss and migmatite

Based from U.S. Geological Survey, Farmans Peak, McCurdy Mountain, Glenivier, Tarryall, 1956



CONTOUR INTERVAL 40 FEET
DATUM IS MEAN SEA LEVEL

(NORTH HALF)
GEOLOGIC MAP AND SECTION OF THE SOUTHERN TARRYALL REGION, PARK AND JEFFERSON COUNTIES, COLORADO