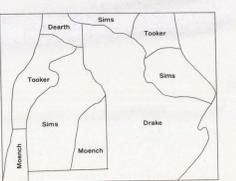
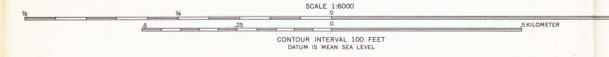


- EXPLANATION**
- Qal Alluvium and colluvium
 - Intrusive breccia
Altered fragments of biotite granite, pyroxenite, and muscovite-quartz-plagioclase-biotite gneiss in a matrix of quartz monzonite (?)
 - Diorphyry dikes and phosors
Purple, gray, and brown hypocrystalline igneous rocks; includes quartz monzonite porphyry, biotite porphyry, trachyte granite porphyry, quartz monzonite porphyry, alkali granite porphyry, and lacustrine granodiorite porphyry
 - Biotite-quartz gneiss
Yellowish gray, weakly foliated, epigranular, fine-grained, intrusive gneiss; includes some pyroxenite
 - Quartz diorite and hornblende
Black or smoky black and white, medium- to coarse-grained, massive or weakly foliated intrusive rock; dominantly hornblende, but includes diorite and minor quartz diorite
 - Granodiorite and associated rocks
Dark gray, foliated, medium-grained, early epigranular intrusive rocks; dominantly granodiorite but includes quartz diorite and quartz monzonite
 - Pegmatite
Light gray to pink, generally coarse-grained granite composed chiefly of quartz, microcline, and alkali feldspar, with variable muscovite, biotite, and hornblende; includes a few small bodies of medium-grained granite gneiss
 - Calc-alkaline gneiss and related rocks
Red and dark greenish-black massive rocks and green, brown, and white layered rocks of variable composition. The massive rocks are always that dominantly contain androchlorite-grenobite and rarely pyroxene garnet, clinopyroxene, hornblende, and epidote. The layered rocks are both colored and massive. Includes pyroxenite, hornblende, hornblende, epidote, plagioclase, quartz, and xenotime. Includes some amphibolite and quartzite
 - Amphibolite
Olive-green, medium- to coarse-grained, layered gneiss; contains hornblende or hornblende, garnet, epidote, quartz, and/or plagioclase
 - Amphibolite
Dark gray to black, medium-grained rocks containing dominantly hornblende and plagioclase with minor quartz; includes both massive and layered varieties; locally interbedded with calc-alkaline gneiss
 - Biotite gneiss
Biotite-quartz-plagioclase gneiss and sillimanite
Gray, medium-grained, weakly foliated gneiss; dominantly interbedded biotite-quartz-plagioclase gneiss and sillimanite biotite quartz gneiss with rare masses of garnetiferous biotite-quartz-plagioclase gneiss and quartz-rich biotite gneiss; includes many small bodies of pyroxenite
 - Microcline gneiss
(Microcline-quartz-plagioclase-biotite gneiss)
Light gray or yellowish gray, medium-grained gneiss; generally has a well-defined layering, has a granitic appearance. Red pattern shows areas where gneiss contains abundant inclusions of amphibolite
- Geological Symbols**
- Contact, showing dip
Dashed where approximately located, short dashed where inferred or gradational, dotted where concealed
 - Fault, showing dip
Dotted where concealed
 - Showing approximate trace of axial plane and plunge of rock
Short dashed where inferred, dotted where concealed
 - Showing approximate trace of axial plane and plunge of anticline
Short dashed where inferred, dotted where concealed
 - Overturned anticline
Showing approximate trace of axial plane
 - Plunge of minor anticline
 - Plunge of minor syncline
 - Plunge of minor fold axis
 - Horizontal fold axis
 - Plunge of drag fold
 - Plunge of recumbent fold
 - Plunge of hoodwag
 - Generalized strike and plunge of crumpled foliation
 - Strike and dip of foliation
 - Strike of vertical foliation
 - Horizontal foliation
 - Direction and plunge of lineation
 - Horizontal lineation
 - Strike and dip of foliation and direction and plunge of lineation
 - Strike and dip of foliation and horizontal lineation
- Other Symbols**
- Prospectively fractured muscovite-quartz-plagioclase-biotite gneiss
Dashed where approximately located, short dashed where inferred, dotted where concealed
 - Shaft
 - Adit
- Note: Fold axes are based upon attitude of foliation



GEOLOGIC MAP OF THE CENTRAL CITY DISTRICT, GILPIN COUNTY, COLORADO



Base map by U. S. Geological Survey from aerial photographs

Geology by F. K. Sims, A. A. Drake, Jr., E. W. Tooker, and A. E. Death, 1952-5