DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

EXPLANATION

for

Geologic Map and Structure Map

Quaternary

- **Qal** — Alluvium
- **Qtg** — Low level terrace gravels
- **Qls** — Landslide debris

Tertiary

- **Tg** — Miocene-Pliocene (?) high level gravels

Relative age within group unknown:

- **Trp** — Rhyolite porphyry
- **Tlp** — Quartz latite porphyry dikes
- **Tap** — Aphanitic felsite dikes

Precambrian

- **p** — Pegmatite
- **ap** — Aplite

Silver Plume Granite

Relative age within group unknown:

- **spqm** — Quartz monzonite
- **sppm** — Porphyritic quartz monzonite
- **spmm** — Mafic quartz monzonite

- **bmg** — Biotite-muscovite granite
- **imu** — Mixed igneous and metamorphic rocks
- **iu** — Mixed igneous rocks

Relative age within group unknown:

- **and** — Andesite dikes
- **adp** — Adamellite porphyry dikes

- **hmg** — Hornblende-microcline granite
- **shg** — Sherman Granite

Relative age within group unknown:

- **bcg** — Boulder Creek Granodiorite
- **als** — Alaskite

Relative age unknown:

- **mbgn** — Microcline-quartz-plagioclase-biotite gneiss
- **cbs** — Clinozoisite-biotite schist
- **cgn** — Calc-silicate gneiss
- **am** — Amphibolite
- **mbs** — Migmatitic biotite schist
- **mks** — Knotted mica schist
- **qms** — Quartzofeldspathic mica schist

- **mu** — Mixed metamorphic rocks

PLATE 2

U.S. Geological Survey
OPEN FILE REPORT
This illustration is preliminary and has not been edited or reviewed for conformity with Geological Survey standards or nomenclature.

PLANAR STRUCTURAL ELEMENTS

Geologic contact dashed where approximate, inferred or gradational

65

Foliation - Schistosity, relict bedding where parallel to schistosity, metamorphic layering in older igneous rocks

30

Flow layering in intrusive igneous rocks

85

Cataclastic foliation

80

Slip or fracture cleavage of indeterminate age

47

Axial planes of F_1 folds

50

Axial planes of F_2 folds

70

Axial planes of F_4 folds

50 80 80

upright or inclined

60 70

Overturned

Synforms Antiforms vertical Reclined folds

Trace of axial planes of F_2 folds with bearing and plunge of fold axes

LINEAR STRUCTURAL ELEMENTS

80

F_2 fold axes

45

F_4 fold axes

30

F_5 fold axes

70

Mineral streaking lineation of indeterminate age

80

Streaking lineation due to cataclastic deformation

10

Slickensides

FAULTS

Where no specific age is assigned:
Location definite, approximate, inferred, concealed

Laramide age indicated by:

L L

Precambrian age indicated by:

M M

Large shear zones showing rock types involved in shearing:

Predominantly metasedimentary rocks now flaser and augen gneisses with variable amounts of ultramylonite and blastomylonite.

Predominantly igneous rocks now flaser and augen gneisses with variable amounts of ultramylonite and blastomylonite.