Cross Section A'

EXPLANATION

- Qal — Quaternary alluvium
- Ph — Phanerozoic – undivided
- ~1700 Ma — bc — Boulder Creek Pluton – undivided
- Quartzite of Coal Creek
  - q — Quartzite
  - qs — Schist
- Mica schist unit
  - ms — Mica schist
  - mc — Metaconglomerate
  - Compositional trends within aluminous schist
  - Approximate quartzitic (dominantly) schist trend
- Transition zone
  - tz — Quartzite to quartz gneiss
  - mq — Magnetite – quartz gneiss
  - gm — Garnet-magnetite-biotite schist
  - mt — Magnetite schist
  - bs — Biotite schist
  - qt — Quartzitic schist
- Hornblende gneiss unit
  - cs — Calc-Silicate (predominant)
  - a — Amphibolite (predominant)
  - sa — Striped amphibolite
- Interlayered gneiss unit
  - hbt — Hornblendite
  - fg — Felsic gneiss (predominant)
  - mg — Mafic gneiss (predominant)
- <1900 Ma — gn — Other gneiss-undivided

Contacts – dashed where approximate

Boundaries of lithologic types changing laterally within a unit. Not to be used to infer unconformites.

Faults – dashed where approximate (after Sheridan, et. al., 1968)

Approximate boundaries of shear zone.

Areas within boundaries examined in some detail in this study, geology modified from Sheridan, et al (1968). Areas outside boundaries, geology simplified from Sheridan, et al (1968).

Fault zone

Syncline axis

Anticline axis

Foliation

Crenulation

Lineation

Foliation with lineation

Foliation with crenulation

Base from USGS Topographic Quadrangles, [illegible] Butte, El Dorado Springs, and Golden Quadrangles

105°22'30" — 20'00" — 17'30" — 15' — 39°45'

SCALE 1:12,000

1 MILE — 0.5 — 0 — 1000 — 0 — 1000 — 2000 — 3000 — 4000 — 5000 — 6000 — 7000 FEET

1 KILOMETER — 0.5 — 0

CONTOUR INTERVAL 40 FEET

GN — MN — 12°14' — 222 MILS — 2 MILS

SCALE 1:24,000

Cross Section A–A'

I-3762

Plate 1

Geology of Ralston Buttes Area, N.W. Jefferson County, Colorado with cross section

Lisa Finiol

U.S. GEOLOGICAL SURVEY