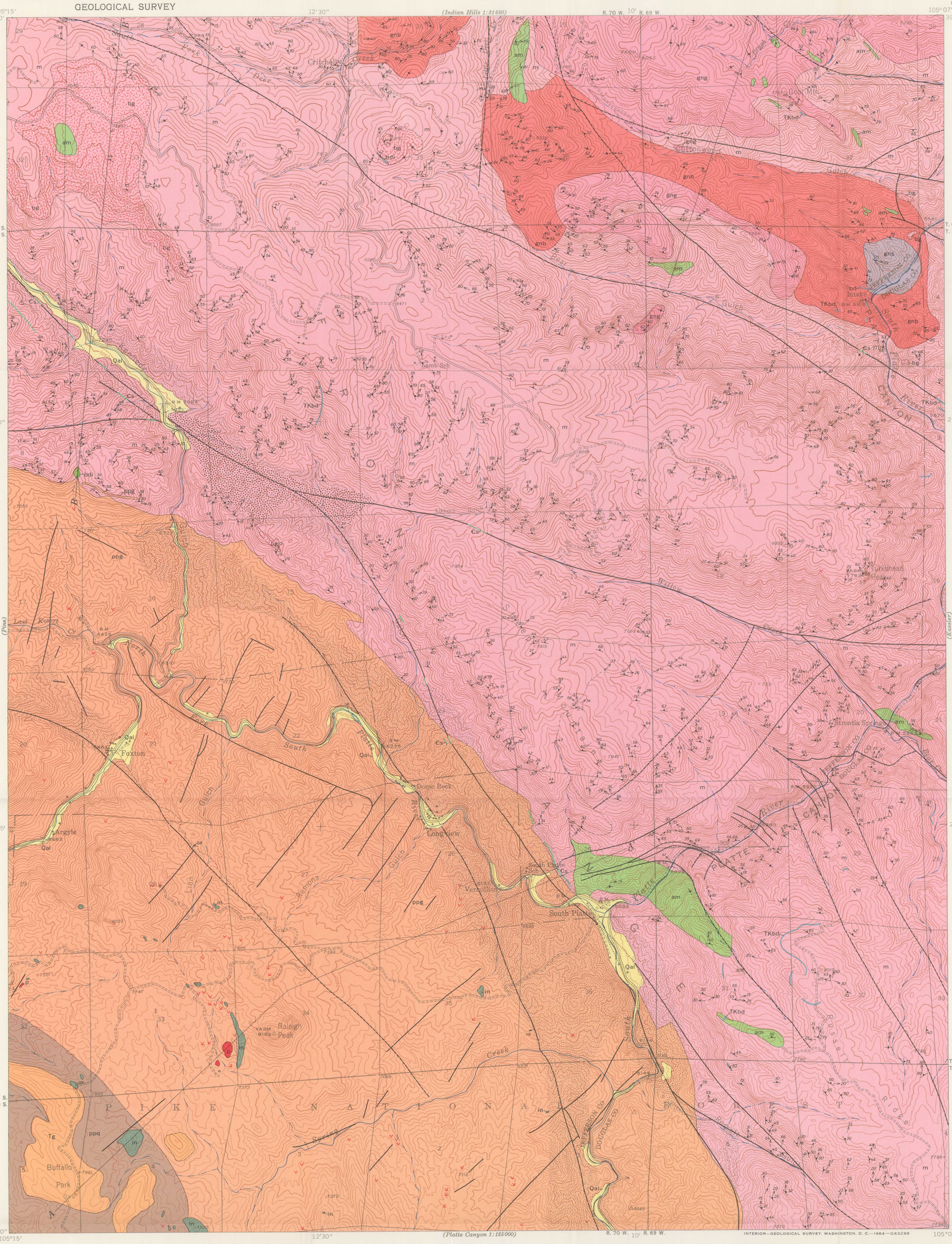


Base from U.S. Geological Survey map of Platte Canyon quadrangle, Colorado, 1945

Geology by Warren L. Peterson, 1955–59; assisted by John J. Halbert, 1957–58

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1964—G63298

EXPLANATION

QUATERNARY — Recent

Qal — Alluvium

TERTIARY — Pliocene(?)

Tg — High-level gravel
Very coarse gravel composed predominantly of rounded boulders 6 inches to 6 feet in diameter

CRETACEOUS OR TERTIARY

TKbd — Basic dike
Dark-gray or dark greenish-gray porphyritic to nonporphyritic rocks of basic composition

CAMBRIAN(?)

Ꞓs — Sandstone dike
Fine-grained quartz sandstone and quartzite occurring in faults in the Precambrian rocks

PRECAMBRIAN(?)

bd — Foliated basic dike

Lithologic units; order may not reflect age

ppg, ppq, in — Pikes Peak Granite
ppg, *pink coarse-grained seriate granular granite*
ppq, *faintly mottled light-gray and light pinkish-gray medium-grained seriate granular to porphyritic quartz monzonite in gradational contact with granite* (ppg)
in, *inclusions of gneisses, intruded and enveloped by fine-grained alaskite*

p — Pegmatite
Very coarsely crystalline pegmatites composed predominantly of quartz, microcline-perthite, and biotite; irregular or roughly circular in plan
Symbols show pegmatities more than 5 feet in diameter (pegmatite is at the point of the symbol)
*, pegmatite that has been mined for feldspar.
*, unmined pegmatite

PRECAMBRIAN(?)

bg — Biotite-muscovite granite
Pink medium-grained biotite-muscovite granite; texture is seriate to seriate porphyritic

hdi — Hornblende-quartz diorite
Speckled white and very dark green medium-grained quartz diorite; weakly foliated in part

bdi — Biotite-quartz diorite
Gray medium-grained foliated quartz diorite

gng — Granitic gneiss
Pink well-foliated dominantly fine-grained leucocratic granitic gneiss

m — Migmatite
Interlayered metasedimentary gneiss, predominantly biotite-quartz-plagioclase gneiss, and pink fine- to medium grained granitic rock

gns — Sillimanitic-biotite gneiss
Interlayered mixture of sillimanitic-biotite gneiss, biotite-gneiss, calc-silicate gneiss, and quartzite. Leucocratic granitic rock forms layers in all these rocks

am — Amphibolite
Very dark green or black fine- to medium-grained well-foliated gneiss composed predominantly of plagioclase and hornblende. Locally contains layers of leucocratic granitic rock

gnb — Biotite gneiss
Biotite-quartz-plagioclase gneiss dark-gray fine-grained well-foliated gneiss composed principally of biotite, quartz, and plagioclase. Rarely garnetiferous or sillimanitic. Locally contains layers of amphibolite. Commonly contains thin layers of leucocratic granitic rocks

Contact
Dashed where approximately located; short dashed where inferred; or gradational dotted where concealed

Fault, showing dip
Dashed where approximately located; short dashed where inferred; dotted where concealed

Fracture zone, related to faulting
Large stipple shows areas of strongly iron stained and closely fractured rock; small stipple shows areas of lightly iron stained and less fractured rock

Strike and dip of foliation

Strike of vertical foliation

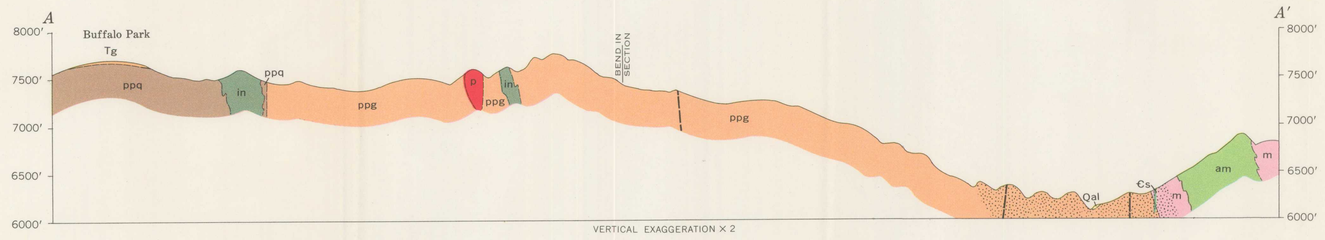
Strike and dip of foliation and plunge of lineation

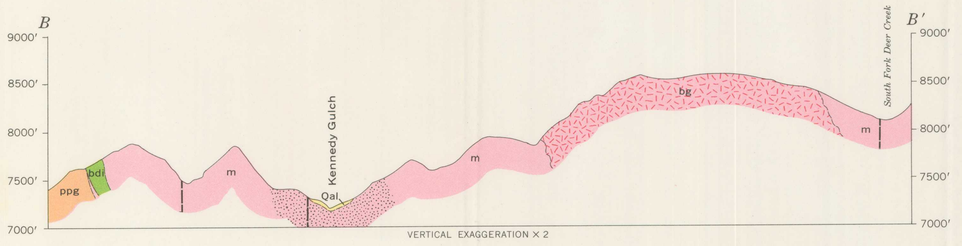
Strike of vertical foliation and plunge of lineation

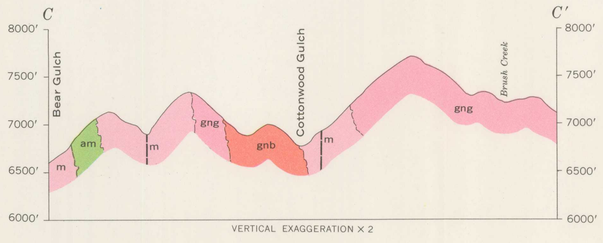
Plunge of lineation

Quarry

TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION, 1963







GEOLOGIC MAP AND SECTIONS OF THE PLATTE CANYON QUADRANGLE, COLORADO

SCALE 1:24 000

1 ½ 0 1 MILE

1 ½ 0 1 KILOMETER

CONTOUR INTERVAL 50 FEET
DATUM IS MEAN SEA LEVEL