

SURFICIAL ROCKS

(Areas of Surficial rocks are shown by patterns of dots and circles.)

Pa

Alluvium
(bottom lands and meadows)

Em

Moraines

Pl

Lake beds and corresponding stream terraces
(sands and gravels)

SEDIMENTARY ROCKS

(Areas of Sedimentary rocks are shown by patterns of parallel lines. Metamorphism is indicated by short dashes combined with the parallel lines.)

Ni

Lake beds
(clay sand and tuff)

Js

Sailor Canyon formation
(slate, quartzite, and limestone)

Sl

Slate and quartzite
(detached masses in the igneous areas probably equivalent to the Sailor Canyon formation)

Slm

Schist
(chiefly micaceous derived from the above described slates by contact metamorphism)

Cc

Calaveras formation
(slate, chert, and quartzite)

Ccm

Calaveras formation
(contact metamorphic rock, chiefly micaceous schists)

IGNEOUS ROCKS

(Areas of Igneous rocks are shown by patterns of triangles and rhombs.)

Pb

Basalt

Na

Andesite
(tuff breccia and massive flows)

Nr

Rhyolite

grd

Granodiorite
(including smaller masses of granite and diorite not separated)

gb

Gabbro

dpt

Diabase porphyrite and augite porphyrite

PROBABLE FAULTS

Sections

A
B
C

A
B
C

A
B
C

A
B
C

A
B
C

A
B
C

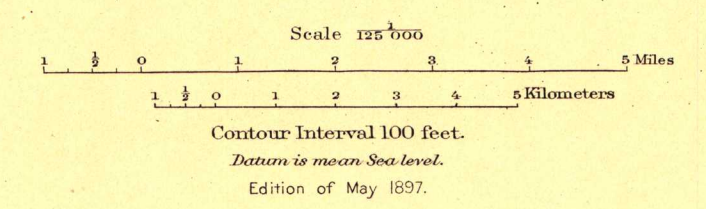
A
B
C

A
B
C

A
B
C



A. H. Thompson, Geographer.
E. M. Douglas, Topographer in charge.
Triangulation by H. E. C. Feuser.
Topography by A. F. Dunnington.
Surveyed in 1889.



Geology by W. Lindgren.
Surveyed in 1891 and 1893.