



SUPERFICIAL

- LATE PLEISTOCENE
 - al Alluvium (bottom lands)
 - grv River gravels (containing gold)
 - mr Moraines

SEDIMENTARY

- NEOGENE
 - Ng Auriferous river gravels

SEDIMENTARY (metamorphic)

- CRETACEOUS
 - Km Mariposa slates. (black clay slates with early Cretaceous or late Jurassic containing numerous rich gold veins)
 - Cc Calaveras formation (Slate, quartzite, limestone and mica schist of Carboniferous age and possibly in part Jurassic containing numerous rich gold veins)
 - Cem Contact metamorphic rock (of same age as Calaveras formation, mica schist and quartz-schist containing some copper deposits)

IGNEOUS

- NEOGENE
 - Na Andesite (fragmental)
 - Nr Rhyolite (fragmental with some clay and gravel)
 - grd Granodiorite
 - gbd Gabbrodiortite
 - qp Quartz-porphyrite
 - hp Hornblende-porphyrite
 - db Diabase (in part diabase porphyrite and diabase-tuff)
 - py Peridotite
 - px Pyroxenite
 - gpy Garnet-pyroxene Rock
 - s Serpentine (containing arsenic iron deposits)

DYNAMOMETAMORPHIC

- am Amphibolite (formed from diabase, gabbro etc. containing some copper deposits and gold quartz veins)

Henry Gannett, Chief Topographer.
A. H. Thompson, Geographer in charge.
Triangulation by H. M. Wilson.
Topography by H. M. Wilson, A. F. Dunnington and R. H. McKee.
Surveyed in 1887.

H.M. Wilson
A.F. Dunnington
R.H. McKee

Scale 125,000
Contour Interval 100 feet
Edition of July 1893.

Lindgren
Turner

Geo. F. Becker, Geologist in Charge.
Geology by W. Lindgren and H. W. Turner.
Surveyed in 1889-91.