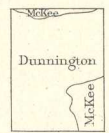




- SUPERFICIAL**
- al Alluvium (bottom lands)
 - grv Shore and river gravels and hardpan (the gravels frequently contain gold)
- PLEISTOCENE**
- SEDIMENTARY (unaltered)**
- Ng Auriferous river gravels
 - Nsg Neocene shore gravels
 - Ni Ione formation (clay sandstone and clay rock containing mica and iron deposits)
- NEOCENE**
- SEDIMENTARY (metamorphic)**
- Jm Mariposa slates (black clay slates containing manganese and rich quartz veins)
 - Cc Calaveras formation (argillite, limonite, micaceous mica-schist, containing gold quartz veins)
- CARBONIFEROUS - JURASSIAN**
- IGNEOUS (unaltered)**
- Na Andesite (massive and fragmental)
 - Nr Rhyolite-tuff (with some beds of clay, building stone)
 - di Diorite (with primary hornblende nuclei)
 - grd Granodiorite (containing gold quartz veins)
 - gr Granite
 - qm Quartz-muscovite rock
 - qd Quartz diorite
 - gbd Gabbro-diorite
 - gbp Gabbro-pyroxenite
 - gb Gabbro
 - py Pyroxenite
 - s Serpentine (contains chromite, iron deposits)
 - qp Quartz-porphyrite
 - db Diabase and porphyrite
 - hp Hornblende-porphyrite
- EARLIER THAN THE LATE CRETACEOUS (CHICO FORMATION)**
- IGNEOUS**
- am Amphibolite-schist (derived from diabase, gabbro, etc. containing gold quartz veins)
 - at Amphibolite-schist (derived from pyroxenite, etc.)
 - l Limestone lenses
- DYNAMOMETAMORPHIC**
- Sections**
-

Henry Gannett, Chief Geographer.
A.H. Thompson, Geographer in charge.
Triangulation by H.M. Wilson.
Topography by A.F. Dunnington and R.H. McKee.
Surveyed in 1888.



Scale 125,000.
Contour Interval 100 feet
Edition of Mar. 1894.

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

— Dip and strike of structural
— Vertical dip and strike of
— Dip and strike of schistosity.
— Gold quartz veins
— Gold gravel mines
— Other mines