



- SUPERFICIAL ROCKS**
(Areas of Superficial rocks are shown by patterns of dots and circles.)
- LATE**
 - al Alluvium (bottom lands)
 - EARLIER**
 - grv Shore and river gravels and hardpan (the gravels frequently contain gold)
- PLEISTOCENE**
- SEDIMENTARY ROCKS**
(Areas of Sedimentary rocks are shown by patterns of parallel lines.)
- SUPERJACENT SERIES**
 - Ng Auriferous river gravels
 - Ni Ione formation (fine sand and gravel. Contains pottery clay and small oval seams)
 - BED-ROCK SERIES**
 - Cc Calaveras formation (lenses of quartzite and limestone, possibly in part of the Neocene and older Pleistocene)
- NEOCENE**
- IGNEOUS ROCKS**
(Areas of Igneous rocks are shown by patterns of triangles and rhombs.)
- SUPERJACENT SERIES**
 - Na Andesite (felsic and vesicular)
 - Nr Rhyolite-tuff (with some rhyolite and gravel)
 - BED-ROCK SERIES**
 - grd Granodiorite
 - qp Quartz-porphyrite
 - gbd Gabbro-diorite
 - py Pyroxenite
 - pr Peridotite
 - s Serpentine
 - db Porphyrite and diabase (massive, fragmental, in part altered to amphibolite rocks)
- EARLIER THAN THE LATE CRETACEOUS (CHICO FORMATION)**
- ALTERED ROCKS**
(Areas of Altered rocks are shown by patterns of short dashes.)
- BED-ROCK SERIES**
 - cm Contact metamorphic rock (micaceous and quartzose schists of same age as Calaveras formation)
 - lm Lenses in Calaveras formation (limestone)
 - am Amphibolite (massive, derived from diabase and gabbro-diorite)
 - ams Amphibolite-schist (derived from diabase and gabbro-diorite)
 - grs Schistose granodiorite
- CARBONIFEROUS**
- EARLIER THAN THE LATE CRETACEOUS (CHICO FORMATION)**
- Sections**
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Henry Gannett, Chief Geographer.
A. H. Thompson, Geographer in charge.
Triangulation by H. M. Wilson.
Topography by H. M. Wilson and A. F. Dunnington.
Surveyed in 1885 and 1886

Wilson
Dunnington

Scale 125,000
Miles
Contour Interval 100 feet
Datum is mean Sea level

Edition of April 1895.

Becker
Lindgren

Geo. F. Becker, Geologist in charge.
Geology by W. Lindgren and H. W. Turner.
Surveyed in 1886-91.

