

LEGEND
(continued)

SPECIAL SYMBOLS

- 100 Dip and strike of stratified rocks
Vertical dip and strike of stratified rocks
100 Dip and strike of schistosity
Vertical dip and strike of schistosity
Pits of hydraulic mines
Quarries
Vertical shafts
Inclined shafts
Tunnels
Tunnels of known length but direction doubtful
2850 Elevation of the Neocene surface under volcanic capping (bed rock)

Known productive formations

- Quartz veins (direction and dip or known outcrops)
Quartz veins (probable outcrops)
Cross-seams (usually without quartz and barren)
Known course (for auriferous Neocene, drainage channels under volcanic capping)
Probable course (for auriferous Neocene, drainage channels under volcanic capping)
Auriferous gravels
Bed rock (exposed by hydraulic mining; letter symbols placed in parentheses indicate the formation thus exposed)

SURFICIAL ROCKS

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

- Pal
Alluvium (sand and gravel)
Pdb
Debris (hydraulic gravel mines)

PLEISTOCENE

SEDIMENTARY ROCKS

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

- Ng
Auriferous river gravels (with bed of clay sand, and some rhyolite tuff)
Nr
Rhyolite tuff (sandy or clayey, interstratified with gravel)

NEOCENE

- Jm
Mariposa formation (clay slate with tuff)

JURASSIC

- Cc
Calaveras formation (siliceous clay slate and black shales)
Ccm
Calaveras (interstratified with quartzite and metamorphic rocks)

CARBONIFEROUS

IGNEOUS ROCKS

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

- Na
Andesite (tuff and breccia)

NEOCENE

- grd
Granodiorite

- ap
Aplite (granite dikes of granodiorite)

- di
Diorite (sometimes containing gabbro in part dikes of granodiorite)

- gb
Gabbro

- pt
Porphyry (augite and hornblende with biotite and quartz extensively altered to amphibolite rocks)

- s
Serpentine (derived from gabbro, pyroxene, and peridotite)

- pts
Amphibolite schist (derived from diabase and porphyry)

EARLIER THAN THE LATE CRETACEOUS (CHICO FORMATION)

- Sections
A
B
C

A.H. Thompson, Geographer.
E.M. Douglas, Topographer in charge.
Triangulation by E.M. Douglas.
Topography by A.F. Dunnington.
Surveyed in 1891.

Geology by W. Lindgren.
Surveyed in 1893-1894.

Legend is continued on the left margin.

Scale 1:4000
1000 500 0 1000 2000 3000 4000 Feet
0 1 2 3 4 Kilometer

Contour Interval 20 feet.

Datum is mean Sea level.

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