

U.S. GEOLOGICAL SURVEY
CHARLES D. WALCOTT, DIRECTOR

HISTORICAL GEOLOGY SHEET

CALIFORNIA
BIG TREES QUADRANGLE

LEGEND

SURFICIAL ROCKS

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



Alluvium
(bottom lands and meadows)



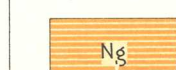
Moraines



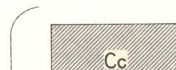
River gravels
(in part auriferous)

SEDIMENTARY ROCKS

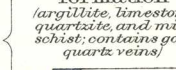
(Areas of Sedimentary rocks are shown by patterns of parallel lines.)



Auriferous river gravels



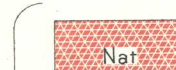
Calaveras formation
(argillites, limestone, quartzite, and micaceous sandstone with gold veins)



Limestone
(in the Calaveras formation)

IGNEOUS ROCKS

(Areas of Igneous rocks are shown by patterns of triangles and rhombs. Metamorphism is indicated by short dashes combined with the igneous patterns.)



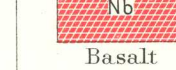
Andesitic tuff and breccia



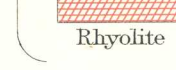
Latite



Biotite latite



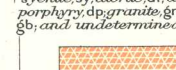
Basalt



Rhyolite



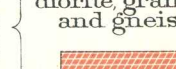
Dikes of various rocks
(syenite, diorite, dioritic porphyry, granite, gabbro, and undetermined rocks)



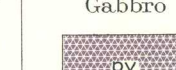
Syenite



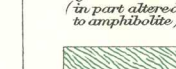
Gabbro



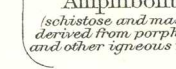
Pyroxenite
(in part altered to amphibolite)



Amphibolite
(schistose and massive, derived from pyroxenite and other igneous rocks)



Granodiorite, quartz diorite, granite, and gneiss



Syenite



Gabbro



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