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

ECONOMIC GEOLOGY SHEET

CALIFORNIA
DOWNIEVILLE QUADRANGLE

(Lassen Peak 250000) (Honey Lake 250000) (Honey Lake 250000)

121°00′ 50′ 40′ 120°30′ 40°00′

LEGEND
(continued)

BED-ROCK SERIES — EARLIER THAN THE LATE CRETACEOUS. CHICO FORMATION

- Dikes of various rocks *(quartz-diorite-porphyry; qdp; augite-porphyrite, apt; and undetermined rocks)*
- gr — Granite and granulite
- gp — Granite-porphyry
- grd — Granodiorite *(quartz-mica-diorite)*
- gb — Gabbro
- s — Serpentine *(associated with peridotite)*
- apt — Augite-porphyrite *(altered augite-andesite with some diabase)*
- am — Amphibolite *(schistose and massive, derived from various basic igneous rocks)*
- qp — Quartz-porphyry *(in part fragmental, sometimes schistose)*

Probable faults

Sections

Dip and strike of stratified rocks
Vertical dip and strike of stratified rocks
Dip and strike of schistosity
Vertical dip and strike of schistosity
Gold quartz veins
DRIFT Drift mines in auriferous gravels
HYDR Hydraulic gold mines
Magnetite prospects
Gold quartz prospects

Known productive formations
- Auriferous gravels
- Limestone

LEGEND

SURFICIAL ROCKS

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

SUPERJACENT SERIES — PLEISTOCENE
- Pag — Alluvial deposits *(early and late)*
- Pl — Lake beds
- Pm — Moraines and glacial drift

SEDIMENTARY ROCKS

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

SUPERJACENT SERIES — NEOCENE
- Ng — Auriferous river gravels

BED-ROCK (Auriferous slate) SERIES — JURATRIAS
- Jml — Milton formation *(tuff, red slate, quartzite, limestone, and conglomerate)*

JURATRIAS ?
- sl — Siliceous argillite *(lentils in quartz-porphyry)*

CARBONIFEROUS
- Crb — Robinson formation *(tuff, trachyte, and red slate)*
- ms — Micaceous schist *(detached masses in granodiorite, probably of the Robinson formation)*
- Cc — Calaveras formation *(clay-slate, quartzite, and limestone)*
- ls — Limestone lentils *(in Calaveras and Milton formations)*

IGNEOUS ROCKS

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

SUPERJACENT SERIES — PLEISTOCENE ?
- b — Late basalt

SUPERJACENT SERIES — NEOCENE
- Na — Andesite *(massive and fragmental)*
- Nb — Older basalt *(fine grained, always massive)*
- Nr — Rhyolite

Legend is continued on the left margin.

(Bidwell Bar 125000) (Sierraville 125000) (Smartsville 125000) (Colfax 125000) (Truckee 125000)

39°30′ 121°00′ 50′ 40′ 120°30′ 39°30′

Henry Gannett, Chief Geographer.
A. H. Thompson, Geograper in charge.
Triangulation by H. M. Wilson.
Topography by H. M. Wilson and R. H. Mc. Kee.
Surveyed in 1886-8.

McKee / Wilson

Scale 1/125000
1 ½ 0 1 2 3 4 5 Miles
1 ½ 0 1 2 3 4 5 Kilometers

Contour Interval 100 feet.
Datum is mean Sea level.

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Geology by H. W. Turner.
Surveyed in 1890-4.