CALIFORNIA STATE DIVISION OF MINES
WALTER W. BRADLEY, State Mineralogist

GEOLOGIC BRANCH
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GEOLOGIC MAP OF NORTHERN SIERRA NEVADA

SHOWING TERTIARY RIVER CHANNELS AND MOTHER LODE BELT

PREPARED BY
OLAF P. JENKINS
1932

SCALE
5 0 5 10 15 20 25 MI.

Geology taken from new State geologic map (by O. P. Jenkins and G. W. Stose) prepared by U. S. Geological Survey in co-operation with California State Division of Mines. Tertiary channels largely after Lindgren. Data compiled from sources listed in accompanying report. Base map after U. S. G. S.

LEGEND

Quaternary

- Qal — Alluvium
- Ql — Lacustrine and playa deposits
- Qt — Terrace alluvial deposits
- Qg — Glacial deposits (moraines, etc)
- Qv — Chiefly Pleistocene volcanics (chiefly basalt)

Tertiary

Pliocene
- QP — Quaternary and upper Pliocene sediments (chiefly non-marine deposits)
- TIb — Late Tertiary lake beds.
- TPu — Upper Pliocene non-marine deposits (Tuscan tuff, etc.)
- TPv — Pliocene volcanics (chiefly basalt)

Miocene
- TMv — Miocene volcanics and continental deposits (lava flows and tuffs of rhyolite, basalt, latite, and andesite.)

Eocene
- TEm — Eocene marine deposits (Ione formation)

Cretaceous
- K — Cretaceous marine deposits (chiefly upper Cretaceous or Chico formation)

Jurassic

Upper Jurassic
- Jai — Acidic intrusives (granite, granodiorite, gabbro, etc.)
- Jbi — Basic intrusives (diabase, amphibolite and hornblende schist)
- Jub — Ultra-basic intrusives (peridotite, pyroxenite, serpentine, etc.)
- Ju — Upper Jurassic marine deposits (chiefly Mariposa formation)

Triassic
- JTR — Jurassic and Triassic volcanic and sedimentary rocks (includes about 16 individual formations)

Carboniferous
- C — Pennsylvanian and Mississippian sedimentary and igneous rocks (includes the Robinson formation, Calaveras group and other rocks of the Carboniferous period)

Devonian & Silurian
- DS — Devonian and Silurian marine deposits (Taylorsville, Grizzley and Montgomery formations)

Age Unknown
- pK — Pre-Cretaceous metamorphic sedimentary complex (pK)
- pS — Pre-Silurian meta-rhyolite (pS)

- Tg — Tertiary stream gravel deposits (For the most part early Tertiary in age.

Tertiary river channels (probably early Tertiary in age)

Intervolcanic Tertiary river channels (probably middle Tertiary in age)

Mother Lode belt (vein system)

3 — Quartz mines (gold)

19 — Placer mines (gold)

44 — Dredging area (gold)

Mine number refers to list in accompanying report.

Δ 208 — Fossil locality

Number refers to U. of C collection.

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