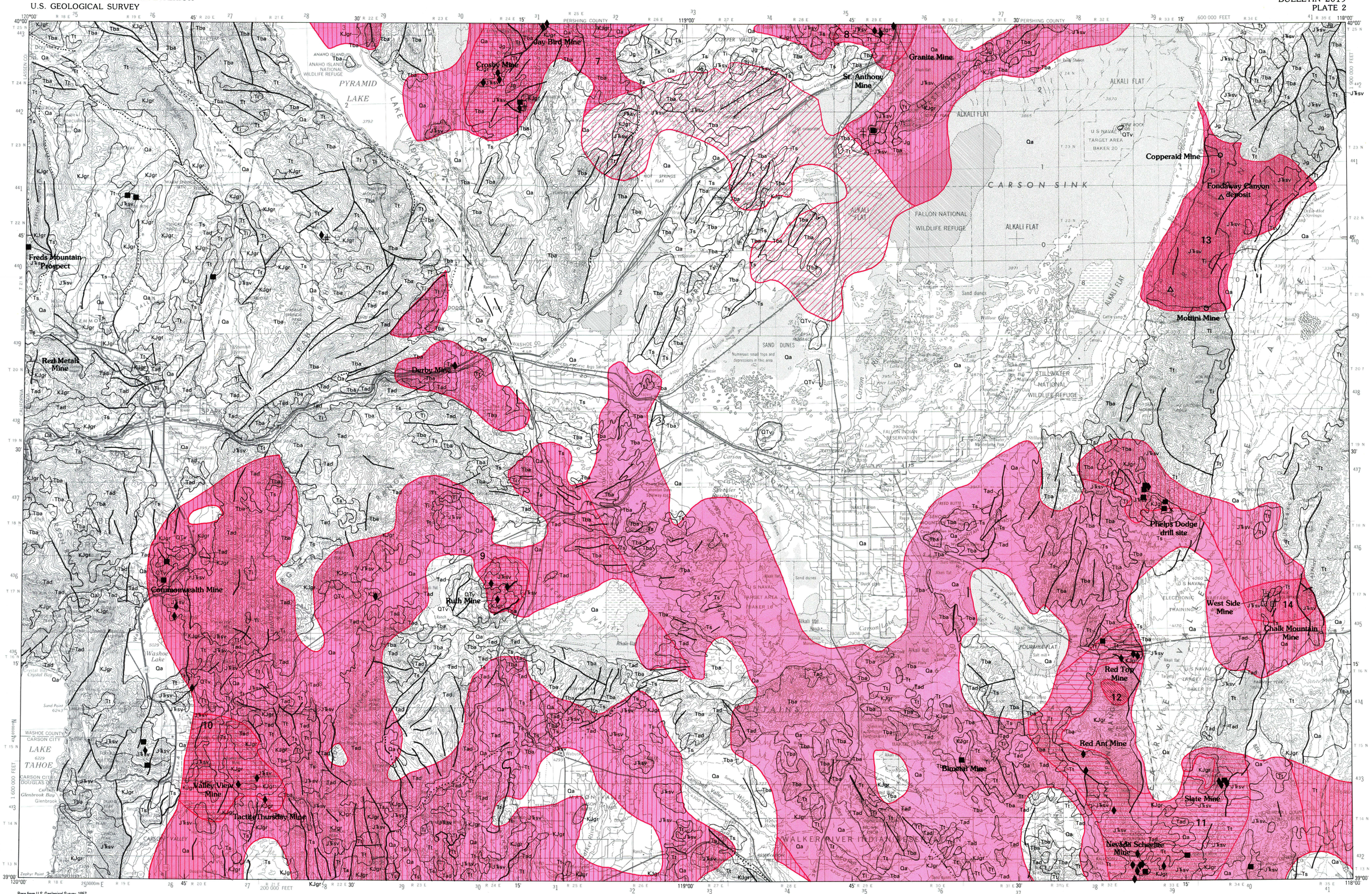


Base from U.S. Geological Survey, 1957
(photorevised 1971)
Transverse Mercator projection

Geology modified from
Greene and others (1991)

DESCRIPTION OF MAP UNITS

- **Qa** — **Alluvium (Quaternary)**
- **QTv** — **Volcanic rocks (Quaternary and Tertiary)**—Basalt and rhyolitic rocks
- **Ts** — **Sedimentary rocks (Tertiary)**
- **Tba** — **Basalt, andesite, and rhyolite (Tertiary)**—Mostly basalt and andesite, minor rhyolitic flows, domes, and shallow intrusive rocks. Bimodal basalt-rhyolite assemblage
- **Ti** — **Intrusive rocks (Tertiary)**—Includes granitic and fine-grained to porphyritic rocks
- **Tad** — **Andesite and dacite (Tertiary)**—Western andesite assemblage
- **Tt** — **Ash-flow tuff and minor andesitic to rhyolitic flows, domes, and shallow intrusive rocks (Tertiary)**—Interior andesite and rhyolite assemblage
- **Kjgr** — **Granitic rocks (Cretaceous and Jurassic)**
- **Jg** — **Gabbroic rocks (Jurassic)**
- **J℞sv** — **Metasedimentary and metavolcanic rocks (Jurassic and Triassic)**

Contact

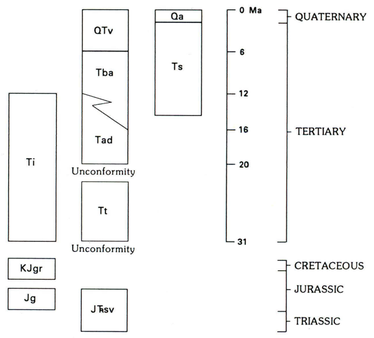
Fault—Dotted where inferred

- **Terrane permissive for Cretaceous tungsten skarn, Cretaceous low-fluorine porphyry molybdenum, Mesozoic and Tertiary gold skarn, and Tertiary polymetallic replacement, zinc-lead skarn, and copper skarn deposits**
- **Terrane permissive for Cretaceous low-fluorine porphyry molybdenum deposits**
- **Tract favorable for Cretaceous tungsten skarn deposits**
- **Tract favorable for Cretaceous low-fluorine porphyry molybdenum deposits**
- **Terrane permissive for sediment-hosted gold deposits**
- **Tract favorable for Tertiary polymetallic replacement, zinc-lead skarn, and copper skarn deposits**
- 7 **Tract summarized in tables 5 and 6**

Mines and prospects—Symbols denote deposit type present

- **Tungsten skarn**
- **Copper skarn**
- **Sediment-hosted gold**
- **Polymetallic replacement**
- **Polymetallic vein**
- **Simple antimony**

CORRELATION OF MAP UNITS



PERMISSIVE TERRANES AND FAVORABLE TRACTS FOR CRETACEOUS TUNGSTEN SKARN, LOW-FLUORINE PORPHYRY MOLYBDENUM, GOLD-BEARING SKARN, AND SEDIMENT-HOSTED GOLD DEPOSITS AND TERTIARY POLYMETALLIC REPLACEMENT, COPPER SKARN, ZINC-LEAD SKARN, AND GOLD-BEARING SKARN DEPOSITS

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Larry C. Rowan

1993

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John, D.A., Stewart, J.H., Kilburn, J.E., Silberling, N.J., and Rowan, L.C., 1993, Geology and Mineral Resources of the Reno 1° by 2° quadrangle, Nevada and California: U.S. Geological Survey Bulletin 2019.