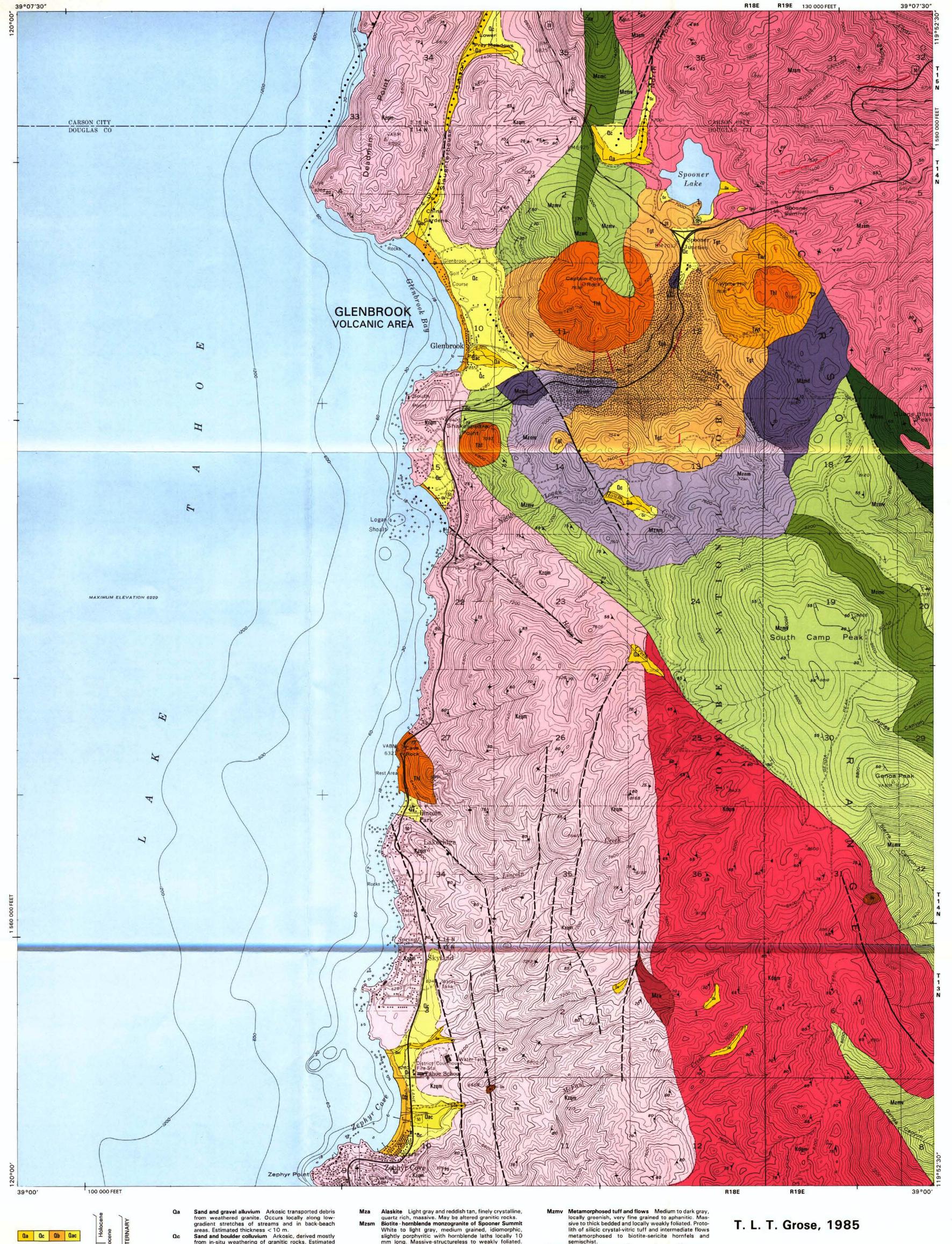
NEVADA BUREAU OF MINES AND GEOLOGY

LAKE TAHOE AREA MAP 2Bg



QUATERNAR Thid TERTIARY Twt Tgt CRETACEOUS TRIASSIC

from in-situ weathering of granitic rocks. Estimated thickness < 25 m. Beach sand Arkosic, fine to very coarse grained. Estimated thickness < 25 m. Carbonaceous alluvium Clayey to sandy, dark gray to black, variously organic. Occurs in marshy back-

beach alluvial tracts.

Landslide debris Granitic, unsorted, coarse. Two small masses associated with Late Quaternary(?) faults. Porphyritic hornblende-sanidine latite dike Same as ThI, but with phenocrysts 3-8 mm long, 30-60% by volume. Dikes and elliptical plugs range from 3-15 m wide and 10-1000 m long. They commonly occur within and marginal to intrusive masses. (Detailed mapping would reveal more than indicated herein.) Porphyritic hornblende-sanidine latite Medium gray, finely to coarsely porphyritic with ubiquitous euhedral sanidine and hornblende phenocrysts 1-8 mm long,

10-40% by volume, and few biotite phenocrysts in a cryptocrystalline to microcrystalline matrix. Comprises 3 circular and 1 elliptical erosionally resistant intrusive Vitric-crystal tuff of White Hill Light gray, coarse grained with quartz, feldspar, and biotite crystals. Massive, unwelded. Occurs concentric to a latite in-

Hornblende trachyte Medium to dark gray, finely to microporphyritic with phenocrysts (40% by volume) of sanidine, oligoclase-andesine, hornblende, and minor biotite set in a cryptocrystalline to microcrystalline matrix. Occurs as flows and compound vent filling near Glenbrook.

slightly porphyritic with hornblende laths locally 10 mm long. Massive-structureless to weakly foliated. Rare dioritic inclusions usually 1-20 cm long.

Kzqm Hornblende-biotite quartz monzodiorite and grano-diorite of Zephyr Cove Light to medium gray, medium grained, hypidiomorphic. Massive-structureless to moderately foliated, most commonly weakly foliated on hornblende, biotite, and inclusions. Ubiquitous dioritic inclusions 2-50 cm long, 1% by volume. Generally equivalent to granodiorite of East Peak, Late Cretaceous, of Armin and others (1983).

Kdqm Hornblende quartz monzonite and monzogranite White to light gray, medium grained, hypidiomorphic, equigranular to porphyritic with euhedral-subhedral hornblende phenocrysts locally 12 mm long. Weakly to strongly foliated on hornblende, biotite, inclusions, and rare schlieren. Ubiquitous dioritic inclusions 2-100 cm long, 1% by volume. Equivalent to granodiorite of Daggett Pass, Cretaceous, 83-90 m.y. (K-Ar), of Armin and others (1983).

Mznm Biotite monzogranite of North Logan House Creek Tan to pink gray, fine to medium grained, allotriomorphic, seriate, slightly porphyritic locally with euhedral hornblende phenocrysts < 8 mm long. Massive-structureless. Intrudes metavolcanic rocks and hornblende diorite.

Mzmd Hornblende diorite of Montréal Canyon Dark gray, fine to medium grained, hypidiomorphic, protoclastic, and locally saussuritized. Massive-structureless. Intruded and locally migmatized by Mznm and Mzsm.

Mzmc Metaconglomerate and metasandstone Light-gray to dark-gray, medium-grained sandstone to fine conglomerate, rounded to angular, quartzose and volcanic. Massive to poorly bedded. Metasandstone Dark gray to black, fine to very fine

grained, angular grains. Massive to weakly foliated. Protolith of graywacke metamorphosed to biotitequartz hornfels and schist.

— Contact Long dashes where approximately located;
— short dashes where gradational and diffuse

Fault Dashed where inferred or approximately lo-- - cated; dotted where concealed. Ball on downthrown • • • side

A75 X Foliation Inclined and vertical

150 X Bedding strike and dip Inclined and vertical

170 Shear zone strike and dip Area of alteration and oxidation Mainly argillization and propylitization

REFERENCE
Armin, R. A., and John, D. A. (1983) Geologic map of the Freet Peak 15-minute quadrangle. California and Nevada. with Quaternary geology by J. C. Dohrenwend: U.S. Geological Survey Miscellaneous Investigations Series Map I-1424, scale 1:62,500

