Geologic Map of the Fremont Peak Area, San Bernardino County, California

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Legend

- **Qa** — Quaternary sediments
- **md** — Mafic dike-aphanitic basalt. (Miocene)
- **fd** — Felsite dike-medium to fine-grained felsite with sachroidal texture. (Miocene)
- **pd** — Porphyritic dike-flow banded dacite diorite with feldspar and biotite phenocrysts. (Miocene)
- **pgd** — Pegmatitic dike-pegmatite with huge books of biotite and muscovite +/- hornblende. (Cretaceous)
- **lg** — Leuocratic granite-contains flakes of biotite and muscovite garnet. (Cretaceous)
- **bgd** — Biotite granodiorite-medium to fine grained equigranular. (Cretaceous)
- **cqm** — Coarsed-grained quartz monzonite mafic minerals comprise < 5%-10% of rock. Biotite is dominant mafic mineral except near hbd contact zones where hornblende becomes more common. High grade deformational fabric defined by alignment of sparse biotite and hornblende. (Cretaceous)
- **gb** — Hornblende gabbro (Jurassic?)
- **mgn** — Migmatitic gneiss (Permo-Triassic)
  Melanisome(75%) fine to medium-grained biotite/plagioclase schist with deformational fabric.
  Leucosome (25%) compositionaly variable granitoid material. Occurs as sweat-like horizons 2-6cm thick with diffuse contacts. The horizons lie parallel to the schistose foliation, defined intrafolial folds, but generally show no internal deformation.
- **hbd** — Hornblende biotite diorite, coarse-grained biotite and hornblende make up approximately 50% of rock. Commonly contains high grade (non-solidus) gneissic fabric. (Permo-Triassic)
- **ms** — Metasediments -quatrzite, calcsilicate and marble. (Permo-Triassic)

Lithologic Contacts

- Known
- Approximate
- Inferred

Faults

- Known
- Approximate
- Inferred

Structural Symbols

- Foliation and lineation of high grade gneissic fabric.
- Crenulation cleavage and secondary shear surfaces showing trace of gneissic layering as it would appear on a horizontal surface.
- Maximum dip direction of dike.

Topography from United States Geological Survey
Fremont Peak 7.5 Minute Quadrangle

0.0 km 0.5 km 1.0 km 2.0 km