CRETACEOUS IGNEOUS ROCKS OF THE LITTLE SAN BERNARDINO MOUNTAINS

**BPF-16-57.1,2**

Metamorphic country rock intruded by cm-m scale sill-like intrusions of leucocratic garnet. Igneous injections are coarse-medium grained porphyritic with k-spar phenocrysts of variable size supported by an equigranular quartz, plagioclase matrix.

Compositional and textural range of fine to coarse grained panidiomorphic granite. Often times foliated, granites are characterized by alignments of aligned mafic minerals. Magmatic foliations are noted in certain outcrops among aligned mafic minerals.

**Map Legend:**

- Paragneiss
- Orthogneiss

**Proterozoic Centrally Wide Canyon Assemblage**

- Upper Wide Canyon paragneiss
- Gabbro

**Gabbro**

- Highly deformed restitic blocks, mafic enclaves and stoped country rock lenses supported by a highly deformed equigranular panidiomorphic granite matrix.

**Surficial Deposits**

- Accumulation of highly deformed restitic blocks, mafic enclaves and stoped country rock lenses supported by a highly deformed equigranular panidiomorphic granite matrix.

**Petrographic Microstructural Rocks**

- **Migmatite**
  - Highly deformed paragneissic units are observed as highly deformed/altered stoped blocks in surficial deposits interface. Stoped blocks of garnet bearing country rock are abundant, with garnets in both stoped blocks and granitoid matrices.

**Geologic Map of Wide Canyon, Eastern Transverse Ranges, Southern California**

- **Map Legend:**
  - Dikes
  - Orthogneiss
  - Paragneiss
  - Proterozoic cores and rims
  - Cretaceous cores
  - Cretaceous rims

**U/Pb Zircon Geochronology Probability Density Functions**

- **Total samples:** 5
- **Age (ma):** 62, 67, 72, 77, 82, 87, 92, 97