

DESCRIPTION OF MAP UNITS

MODERN SURFICIAL DEPOSITS—Sediment recently transported and deposited in channels and washes, on surfaces of alluvial-fan and alluvial plains, and on hillslopes. Soil-profile development is non-existent to minimal. Includes: **Artificial fill (late Holocene)**—Uncompacted fill resulting from mining and tunnel excavation, flood-control levee fill, compacted engineered road and highway fill. **Modern wash deposits (late Holocene)**—Unconsolidated coarse-grained sand to bouldery alluvium of active channels and washes flowing drainage bottoms within mountains and on alluvial-fan areas of mountains. Most alluvium is, or recently was, subject to active stream flow. Includes some low-lying terrace deposits along alluvial canyon floors and areas underlain by colluvium along base of some slopes. **Modern wash deposits, Unit 2**—Unconsolidated coarse-grained sand to bouldery alluvium of recently active channels and washes; commonly distinguished by terrace level. **Modern wash deposits, Unit 1**—Unconsolidated coarse-grained sand to bouldery alluvium of recently active channels and washes; commonly distinguished by terrace level. **Modern alluvial-fan deposits (late Holocene)**—Unconsolidated deposits of coarse-grained sand to bouldery alluvium of modern fans having undissected surfaces. **Modern alluvial-fan deposits, Unit 1**—Unconsolidated deposits of coarse-grained sand to bouldery alluvium of modern fans having undissected surfaces; commonly distinguished by terrace level. **Modern colluvial deposits (late Holocene)**—Unconsolidated deposits of soil and angular rock debris along base of slopes. Ranges from deposits consisting of almost wholly rock fragments to deposits of soil and humus-rich material. **Modern talus deposits (late Holocene)**—Unconsolidated to slightly consolidated deposits of angular and subangular pebble, cobble, and boulder-size material that form scree and rubble on hillslopes and at base of slopes. **Modern slopewash deposits (late Holocene)**—Unconsolidated to slightly consolidated sand, pebbles, cobbles, and small boulders deposited by water not confined to channels. **Modern landslide deposits (late Holocene)**—Slope failure deposits consisting of displaced bedrock blocks and (or) chaotically mixed rubble. Deposits are possibly active under current climatic conditions and moderate to strong ground-shaking conditions. **YOUNGER SURFICIAL DEPOSITS**—Sedimentary units that are slightly to moderately consolidated and slightly to moderately dissected. **Young alluvial-fan deposits (Holocene and late Pleistocene)**—Unconsolidated to moderately consolidated, coarse-grained sand to bouldery alluvium deposits having slightly to moderately dissected surfaces. Includes from youngest to oldest: **Young alluvial-fan deposits, Unit 5 (Holocene)**—alluvial-fan deposits having slightly dissected surfaces and stage S7 soils. Slightly younger than Qy5 based on geomorphic relations. Found in northeast part of quadrangle between East Kinbark and Ames Canyons. **Young alluvial-fan deposits, Unit 4 (Holocene)**—alluvial-fan deposits having slightly dissected surfaces and stage S6 or incipiently developed stage S5 soils. **Young alluvial-fan deposits, Unit 3 (Holocene)**—alluvial-fan deposits having moderately dissected surfaces and well-developed S5 soils. **Young alluvial-fan deposits, Unit 1 (late Pleistocene)**—alluvial-fan deposits having moderately dissected surfaces and well-developed S5 soils. **Young alluvial-valley deposits (Holocene)**—Includes: **Young alluvial-valley deposits, Unit 2 (Holocene)**—Low terraces of gravelly sand. **Young alluvial-valley deposits, Unit 1 (middle Pleistocene)**—Low terraces of gravelly sand. **Young alluvial-valley deposits, Unit 4 (Holocene)**—Slightly to moderately dissected, consolidated to cemented deposits of angular and subangular pebble, cobble, and boulder-size material that form scree and rubble on hillslopes and at base of slopes. **Young talus deposits (Holocene and late Pleistocene)**—Slightly to moderately dissected, consolidated to cemented deposits of angular and subangular pebble, cobble, and boulder-size material that form scree and rubble on hillslopes and at base of slopes. **Young landslide deposits (Holocene and late Pleistocene)**—Slope failure deposits that consist of displaced bedrock blocks and (or) chaotically mixed rubble. Deposits are probably inactive under current climatic conditions and moderate to strong ground-shaking conditions.

NOTE: Subscripts of Quaternary unit labels on map denote grain size characterizing the unit within individual polygons. (e.g. Qy1s)
 lg - large boulders
 lg - boulder gravel
 g - gravel (cobble through granitic gravel)
 s - streamflow (very coarse sand through very fine sand)
 s - silty
 m - marl
 p - peat

CONTACTS—Solid where accurately located; dashed where approximately located; dotted where concealed, queried where inferred.
 Contact—Solid where accurately located; dashed where approximately located; dotted where concealed, queried where inferred.
 Contact—Separates terraced alluvial units, hachers point towards topographically lower surface.
 Contact—Geomorphic feature—crown scarp; hachers point towards topographically lower surface.
High angle fault—Solid where accurately located; dashed where approximately located; dotted where concealed, queried where inferred. Parallel, paired arrows indicate relative horizontal movement. Arrows and numbers indicate direction and dip of fault surface and bearing and plunge of slickensides.
Thrust fault—Solid where accurately located; dashed where approximately located; dotted where concealed, queried where inferred. Parallel, paired arrows indicate scarp; hachers on down-dropped block. Arrow and number indicates direction and dip of fault surface.
Fault zone—Consists of crushed and brecciated rock and gouge; solid where accurately located; dashed where approximately located.
Strike and dip of sedimentary beds
 Inclined
 Vertical
 Overturned
 Horizontal
Strike and dip of foliation and layering in metamorphic rocks
 Inclined
 Vertical
Bearing and plunge of aligned minerals in metamorphic rocks
 Bearing and plunge of horizontal mineral lamination in metamorphic rocks
 Bearing and plunge of unspecified linear features

LEGEND

- Basement rocks of Peninsular Range-type
- Basement rocks of San Bernardino Mountains- and Mojave Desert-types
- Basement rocks of San Gabriel Mountains-type (upper plate of Vincent Thrust)
- Basement rocks of San Gabriel Mountains-type (lower plate of Vincent Thrust)

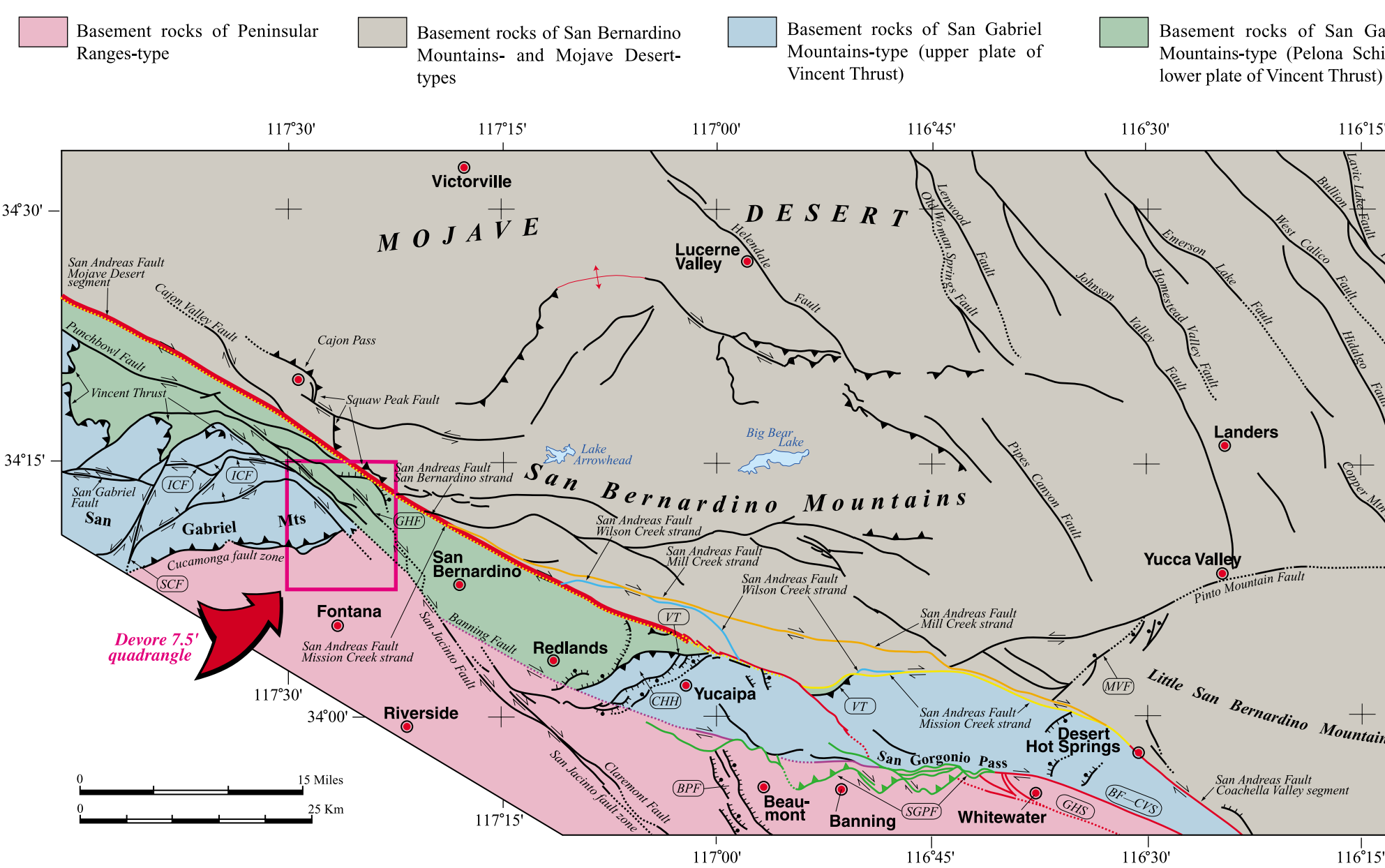
GEOLOGIC MAP OF THE DEVORE 7.5' QUADRANGLE, SAN BERNARDINO COUNTY, CALIFORNIA



Version 1.0
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Classification of granitic rock types (from IUGS, 1976, and Streckeisen, 1976). A, alkali-feldspar; P, plagioclase-feldspar; Q, quartz



Map showing regional geologic framework and location of Devore 7.5' quadrangle. Faults modified from Matti and Morton (1993), Matti and Rogers (1967). Faults shown in colors are strands of the San Andreas Fault; red indicates moderate traces of the San Andreas Fault. BF—CVS, Banning Fault; CO—Cochella Valley segment; CHS, San Andreas Fault—Garnet Hill strand; BPF, Beaumont Plain fault; CHH, Crafton Hills north-and-graben complex; GHF, Glen Helen Fault; ICF, Icehouse Canyon Fault; MVF, Morongo Valley Fault; SCF, San Antonio Canyon Fault; VT, Vincent Thrust