Sharp-rv-1965

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PLATE 1

GEOLOGY BY R.V. SHARP 1961 – 1963

EXPLANATION

CATACLASTICALLY DEFORMED ROCKS

CRETACEOUS OR TERTIARY

KTc
- KTc_1 ADAMELLITIC CATACLASITE
- KTc_2 TONALITIC CATACLASITE
- KTc_3 MIXED CATACLASITES AND MARBLE-RICH METAMORPHIC ROCKS
- KTc_4 MYLONITE

PLUTONIC ROCKS

MID-CRETACEOUS

Kfa FINE- TO MEDIUM-GRAINED BIOTITE ADAMELLITE

Kga MEDIUM- TO COARSE-GRAINED GARNETIFEROUS ADAMELLITE

Ka MEDIUM-GRAINED ADAMELLITIC ROCKS :
- Ka_1 POORLY FOLIATED BIOTITE ADAMELLITE
- Ka_2 FOLIATED BIOTITE ADAMELLITE
- Ka_3 FOLIATED PORPHYRITIC BIOTITE ADAMELLITE
- Ka_4 INCLUSION-RICH PORPHYRITIC BIOTITE ADAMELLITE

Kmg MEDIUM-GRAINED GRANODIORITIC ROCKS :
- Kmg_1 HORNBLENDE-BIOTITE GRANODIORITE
- Kmg_2 INCLUSION-RICH HORNBLENDE-BIOTITE GRANODIORITE

Kgd INEQUIGRANULAR BIOTITE GRANODIORITE AND ADAMELLITE :
- Kgd_1 BIOTITE GRANODIORITE
- Kgd_2 BIOTITE GRANODIORITE AND ADAMELLITE (CONTACTS WITH INTRUSIVES NOT SHOWN)

Ktg FINE- TO MEDIUM-GRAINED BIOTITE TONALITE AND GRANODIORITE

Kt MEDIUM-GRAINED TONALITIC ROCKS :
- Kt_1 HORNBLENDE-BIOTITE TONALITE AND BIOTITE-HORNBLENDE TONALITE
- Kt_2 BIOTITE TONALITE
- Kt_3 FOLIATED HORNBLENDE-BIOTITE TONALITE
- Kt_4 INCLUSION-RICH HORNBLENDE-BIOTITE TONALITE
- Kt_5 HORNBLENDE-BIOTITE TONALITE WITH LARGE SPHENE CRYSTALS

Kg GABBROIC ROCKS :
- Kg_1 OLIVINE-HORNBLENDE NORITE AND OLIVINE-HORNBLENDE GABBRO
- Kg_2 HORNBLENDE GABBRO AND HORNBLENDE LEUCOGABBRO

METAMORPHIC ROCKS

PRE-MID-CRETACEOUS

pKm MIGMATITIC GNEISS WITH MINOR QUARTZITE, MARBLE, AMPHIBOLITE AND METACONGLOMERATE. INCLUDES SMALL UNMAPPED BODIES OF HORNFELSIC ROCKS, QUARTZ GABBRO, GRANITE PEGMATITE, AND OTHER INTRUSIVES COMPOSITIONALLY EQUIVALENT TO MAPPED BODIES.

SEDIMENTS

QUATERNARY

RECENT

Qal ALLUVIUM

UNCONFORMITY

PLEISTOCENE

Qt TERRACE GRAVELS AND SANDS

UNCONFORMITY

Qb BAUTISTA BEDS
- Qb_1 GRAVELS
- Qb_2 SANDS
- Qb_3 SILTS AND CLAYS

UNCONFORMITY

CONTACT
DASHED WHERE APPROXIMATELY LOCATED
QUERIED WHERE INFERRED

GRADATIONAL CONTACT
APPROXIMATELY LOCATED

FAULT, SHOWING DIPS
DASHED WHERE APPROXIMATELY LOCATED
DOTTED WHERE CONCEALED
D DOWNTHROWN SIDE, U UPTHROWN SIDE

THRUST FAULT AND KLIPPE
DASHED WHERE APPROXIMATELY LOCATED
DOTTED WHERE CONCEALED
QUERIED WHERE INFERRED
BARBS ON OVERTHRUST PLATE

STRIKE AND DIP OF BEDDING

STRIKE AND DIP OF OVERTURNED BEDDING

STRIKE AND DIP OF FOLIATION

STRIKE AND DIP OF VERTICAL FOLIATION

FOLIATION WITH BEARING AND PLUNGE OF LINEATION

BEARING AND PLUNGE OF SLICKENSIDES

1.0 0.5 0 1 2 3 4 5 6 7 8 MILES

CONTOUR INTERVAL 80 FEET

GENERALIZED GEOLOGIC MAP OF THE SAN JACINTO FAULT ZONE IN PART OF THE PENINSULAR RANGES, SOUTHERN CALIFORNIA

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