

STRUCTURE SECTIONS

CALIFORNIA
SAN MATEO QUADRANGLE

LEGEND

SEDIMENTARY ROCKS

SHEET SYMBOL SECTION SYMBOL

Salt-marsh deposits
(clay and silt)

Qs Combined with Qal on sections

Sand dunes and beach sand
(may include alluvium in places)

Qal Qal

Alluvium
(probably of same age as Tomsawick formation, covered in places by dune sand)

Qm Qm

Meritt sand (marine)

Qtg Terrace gravel (roadbed)

Tmc Tmc

Merced formation (marine clay, sand, silt, shales and some glauconitic sandstone, overlain in part by thick Qal terrace sand and gravel)

Qsc Santa Clara formation (alluvium)

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Tmz Tmz

Martinez ? formation (conglomerate, coarse and fine grained sandstone, dark shales and thin limestone)

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Kk Kk

Conglomerate, probably Knoxville formation

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Jby Jby

Bonita sandstone (arkosic sandstone)

Ji Ji

Ingleside chert (alterations of thin layers of fossiliferous radiolarian chert, chiefly red and thin near earthy shales)

Jm Jm

Martin sandstone (with subordinate amounts of shale)

Jf Metamorphic schist (sedimentary and igneous rocks altered by contact metamorphism to amphibole, mica, quartz and albite schists)

Jca Jca

Sausalito chert (alterations of thin layers of fossiliferous radiolarian chert, chiefly red and thin near earthy shales)

Jch Jch

Cahil sandstone with Calera limestone member (includes also lenses of fossiliferous chert, but not of limestone; Jch may include some higher sandstone beds and chert lenses)

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Gavl Gavl

Gavilan limestone (crystalline limestone masses included in quartz diorite)

IGNEOUS ROCKS CHIEFLY INTRUSIVE

Tib Tib

Later basalt (lava flows and intrusive bodies of undetermined age)

Jsc Jsc

Silica-carbonate rock (aggregate of silica and various carbonates derived from alteration of serpentine)

Jsp Jsp

Serpentinized peridotite and associated gabbro and pyroxenite

Jb Jb

Basalt and diabase (diabase intrusions mostly show spherulitic or aligned structures, includes some lava flows contemporaneous with Franciscan group)

qd qd

Quartz diorite (large batholithic mass, "Monterey granite")

Faults

Concealed faults (covered by deposits)

Approximate mean declination 1913.

Diagram of Township:

6 5 4 3 2 1

7 8 9 10 11 12

13 14 15 16 17 18

19 20 21 22 23 24

25 26 27 28 29 30

31 32 33 34 35 36

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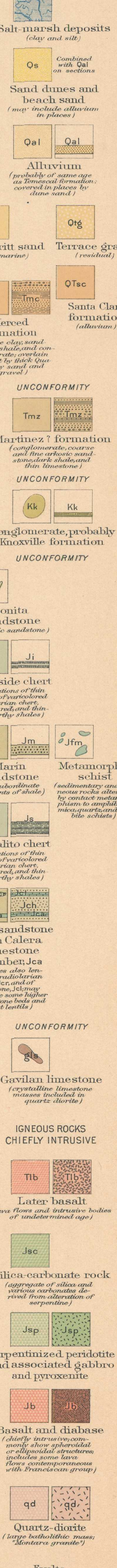
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U.S. GEOLOGICAL SURVEY
GEORGE OTIS SMITH, DIRECTOR

A.H. Thompson, Geographer.
Willard D. Johnson, Topographer in charge.
Triangulation by U.S. Coast and Geodetic Survey.
Topography by R.B. Marshall, R.H. McKee, and U.S.C. & G.S.
Surveyed in 1892.

Edition of Jan. 1914.

Geology by Andrew C. Lawson,
assisted at various times by
students of the University of California.
Surveyed in 1893, 1895, 1906, and 1907.

60° Slopes and dip of stratified rocks
° Slopes of vertical stratified rocks
T indicates overthrust side of thrust faults