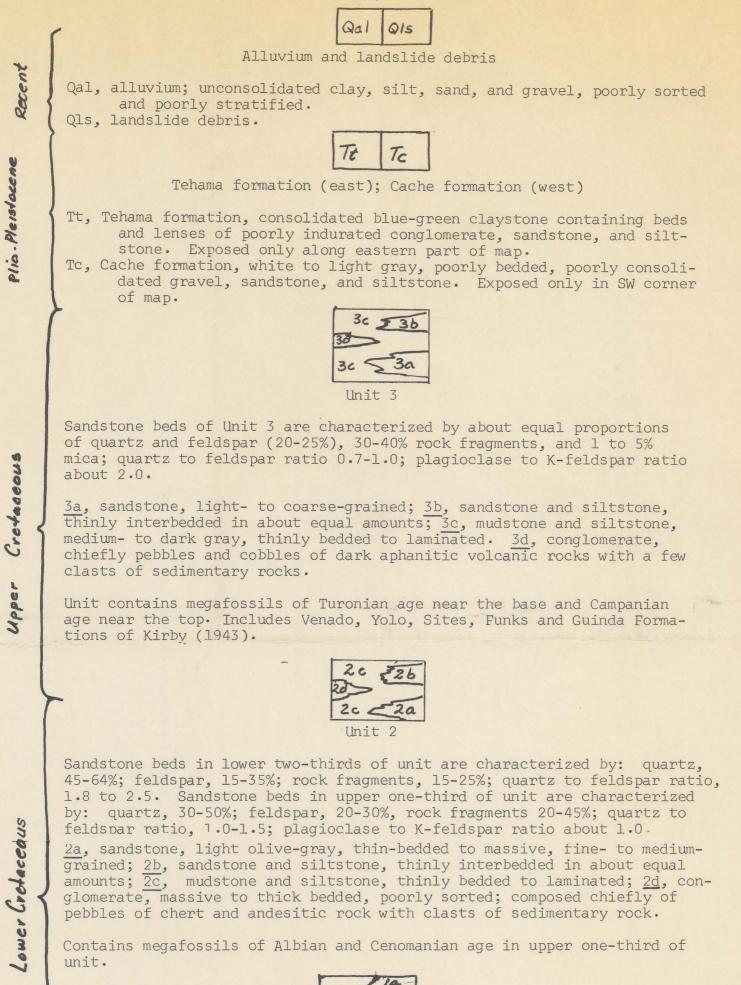
EXPLANATION

Rocks East of Stony Creek Fault Zone

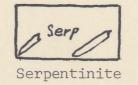


Sandstone beds of Unit 1 are characterized by about equal amounts of quartz and feldspar (20% each) and 40-80% volcanic rock fragments; K-feldspar only in minor amounts. Contains megafossils of Late Jurassic and Early Cretaceous ages. Buchia crassicollis in zone 50 to 150 feet thick about 3,000 feet below top of formation and Buchia piochii (Late Jurassic) beneath <u>B. crassicollis</u> zone. <u>B. uncitoides</u> (Berriasian) from conglomerate unit underlying Gravelly Buttes.

Jurassic

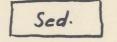
upper

la, sandstone, pale olive-gray, thin- to medium-bedded, fine- to coarsegrained; 1b, sandstone and siltstone, thinly interbedded in about equal amounts; lc, mudstone and siltstone, dark-gray to greenish gray, thinly bedded to laminated, tuffaceous near base of formation; 1d, conglomerate, massive to thick-bedded, composed chiefly of pebbles of chert and andesitic to basaltic rocks, in places contains pebbles and cobbles of diorite or quartz diorite; le, pillow basalt, flow breccia, and volcanic-rich sedi-mentary rock; lBa, basaltic sandstone, dark-gray to greenish-black, thinbedded to massive, medium- to coarse-grained; composed chiefly of poorly sorted basaltic debris and chloritized(?) basaltic debris; most beds exhibit graded bedding.



Intensely sheared and foliated serpentinite containing rounded blocks of serpentinized peridotite and slivers of sedimentary rock. Includes "detrital" serpentine of previous workers.

Rocks West of Stony Creek Fault Zone



Sedimentary Rocks

Sandstone and siltstone; sandstone, dark-gray to greenish-gray, mediumto coarse-grained with interbeds of thin-bedded to laminated siltstone and mudstone.

Meta.

Metasedimentary Rocks

Phyllonite and semischist that lithologically resembles rocks found east of Stony Creek Fault. Cataclastic texture most pronouced near thrust zone.



Volcanic Rocks

Finely crystalline volcanic rocks, chiefly pillow basalts and flow breccia, intensely altered to greenstone near Stony Creek Fault. In places exotic blocks of hypabyssal rocks, chiefly diabase, enclosed in serpentinite.



Serpentinite

Serpentinized peridotite and serpentinite, undifferentiated. In places pyroxene crystals as much as 1/2 inch in diameter partly altered to bastite and lattice structures. Contact with country rock commonly sheared. May include diapiric or "detrital"serpentine of previous workers.

GEOLOGIC SYMBOLS

Contact Dashed where approximately located; length of dash indicates degree of accuracy of location.

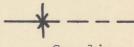
Fault

Dashed where approximately located; U, relatively upthrown side.

-

Thrust Fault Dashed where approximately located; barb on upper plate.

Probable fault in serpentinite Located from lineations on aerial photographs and alignment of springs and slivers of exotic rocks.



Syncline Showing trace of axial plane.

Anticline Showing trace of axial plane.

_____34

Strike and dip of beds.

34

Strike and dip of beds. Unknown whether right side up or overturned.

134

Strike and dip of overturned beds.

Strike of vertical beds.

California (Wilbur S sheet 3, cop. 6 prings quad.) geol 1:48,000. 1969.



M(200) R290 no. 69- 22 / sheet 3063 C.1