DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

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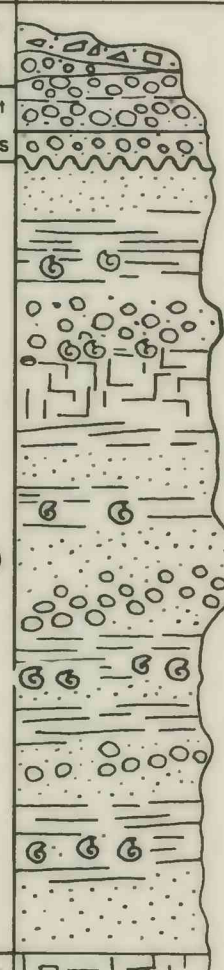
Plate III

Generalized Stratigraphic Column of the Ojai Valley Matilija Quadrangle, Ventura County, California

Michael N. Clark, 1979

System	Series	Formation	Map Symbol	Lithology	Thickness Meters	Description
Quat.	Pleistocene – Recent	Landslides Alluvium ? Terraces Saugus	Qls Qa Qot, Qt Qf, Qs		0-100 50+	See plate IV for detail
						unconformity
Tertiary	Pliocene	Pico	Tp		2500 +	Siltstone, sandstone, shale, mudstone, and conglomerate; gray, blue-gray, tan and brown, lamellar to thick bedded, fossiliferous; sandstone and conglomerate units generally poorly sorted.
	Miocene	Sisquoc	Tsq		500-1200	Mudstone, shale and siltstone; chocolate brown to black, massive to laminated, moderately to poorly indurated; fine to medium grained.
		upper Monterey	Tm		250-400	Shale; dark brown, weathers light buff; hard, brittle, porcelaneous, siliceous; finely laminated and fractures along bedding planes.
		lower Monterey	Tml		250-400	Shale; dark brown; weathers light buff; soft, fissile, punky, organic; abundant microfossils. Locally cherty. Local bentonite beds near base.
		Rincon	Tr		500 +	Mudstone, siltstone, shale; blue-gray to brown; argillaceous to silty; limestone nodules in bedding planes, fractures into small, close ellipsoidal or spheroidal fragments.
	? Oligocene ?	Vaqueros	Tv		100-125	Sandstone, claystone, siltstone; brown, greenish brown, gray, white and buff, well sorted quartz grains, some feldspar and mafics, poor to well indurated, fossiliferous.
		Sespe	Ts		1300 +	Shale, sandstone and conglomerate; argillaceous; red, maroon, brown, gray, green; fine to coarse grained sandstone and conglomerate; unsorted to sorted, friable to well indurated; conglomerate is friable with well rounded clasts of volcanic, granitic, minor shale and metamorphic rock fragments.
	Eocene	Coldwater	Tc		700 +	Sandstone; arkosic; gray to white, well indurated, fine to coarse grained; grains are subangular to angular and sorted to unsorted; oyster biostromes common.
		Cozy Dell	Tcd		800 +	Shale, siltstone and mudstone; argillaceous to silty brownish gray to olive gray, locally fissile and breaks into subellipsoidal to subplaty fragments.
		Matilija	Tma		500 +	Sandstone; buff, dark gray, greenish gray-white and white, well indurated; fine to med. grained, well sorted, subangular to subrounded quartz and feldspar grains, fossiliferous. (characterized by splochy green and white spots)
		Juncal			.	Column continues downward

Lithologic Symbols

- Sandstone
- Conglomerate
- Shale
- Siliceous shale
- Mudstone
- Cherty shale
- Siltstone
- Limestone concretions
- Fossils

Tectonic Geomorphology and Neotectonics of part of the Ojai Valley and upper Ventura River