ESTIMATED CUMULATIVE THICKNESS (FEET)	SYSTEM	SERIES	STRATIGRAPHIC UNIT	GENERALIZED LITHOLOGY	THICKNESS (FEET)
	QUATERNARY	RECENT	Alluvium	Sand and gravel	
0		PLEISTOCENE	Older alluvium	Poorly cemented mudstone, pebbly mudstone, pebbly sandstone, and conglomerate	200? near Salinas River
			UNCONFORMITY		
			Paso Robles Formation	Conglomerate: rounded pebbles of porcelaneous rock and chert in matrix of sandstone or silty sandstone Sandstone, very pale orange, poorly sorted, poorly bedded, arkosic, noncalcareous, friable Mudstone, very pale orange, massive to thick-bedded, pebbly	550+ near west edge of Cosio Knob quadrangle; apparently much thicker near Jolon Valley
1000	TERTIARY	PLIOCENE	Unnamed formation	Sandstone, very pale orange and yellowish-gray; chiefly very fine grained or fine-grained, hard, massive, arkosic, noncalcareous; locally contains marine fossils Mudstone, yellowish-gray, massive, noncalcareous. Porcelaneous rocks similar to Monterey Shale	900 near west edge of Cosio Knob quadrangle; thin or absent near Salinas River
			GRADATIONAL CONTACT		
2000		MIOCENE UPPER	Monterey Shale		
3000					
4000				Mudstone and shale, very pale orange, massive to laminated; hackly fracture; noncalcareous; marine Porcelaneous mudstone, very pale orange or pinkish-gray, generally massive; hackly fracture; noncalcareous; marine Porcelanite and porcelaneous shale, pinkish-gray, very pale orange, or light brownish-gray, massive to laminated; hackly fracture; marine Carbonate beds and concretions, grayish-orange; ½ foot to 5 feet thick; hard; dense Chert, generally light brownish-gray or brownish black; in beds 1 to 12 inches thick	5000+ near east edge of Cosio Knob quadrangle; thins to east and is absent near Salinas River
5000					
6000					
			GRADATIONAL CONTACT		
7000		MIDDLE	Sandholdt Member	Shale, chiefly very pale orange, hard calcareous. Also contains porcelanite, sandstone, chert, and carbonate beds	600 in northwestern part the Cosio Knob quadrangle; absent near Salinas River
			GRADATIONAL CONTACT		
8000		LOWER	Upper member	Sandstone, very light gray, pale yellowish-orange, or dark yellowish-orange, medium- to coarse-grained, arkosic, poorly sorted, massive to thick-bedded; locally contains marine fossils Siltstone, pale yellowish-brown, massive; hackly fracture	1250+ near sec. 19, T. 21 S., R. 7 E.; absent near Salinas River
		OLIGOCENE(?)	Vaqueros Formation	GRADATIONAL CONTACT	
9000			Lower member	Sandstone, yellowish-gray or grayish-orange, medium- to coarse-grained arkosic, poorly sorted, conglomeratic Local beds and lenses of conglomerate	1250+ near northwest corner of Cosio Knob quadrangle; absent near Salinas River
10,000		EOCENE	Reliz Canyon Formation	Sandstone, yellowish-gray, grayish orange-pink, or pale reddish-brown, arkosic, fine- to medium-grained; in beds 1 to 3 feet thick	500+ in sec. 18, T. 21 S., R. 7 E.; absent in subsurface in Espinosa Canyon quadrangle
			NONCONFORMITY		
	PRE-TERTIARY		Basement complex	Granitic rocks, deeply weathered; cut by quartz veins and aplite and pegmatite dikes	

EXPLANATION

LITHOLOGIC SYMBOLS FOR SEDIMENTARY ROCKS

Siliceous shale · Mudstone · Porcelaneous rocks · Sandstone

Calcareous shale · Siltstone · Carbonate beds and concretions · Conglomerate

COMPOSITE GENERALIZED STRATIGRAPHIC SECTION FOR THE COSIO KNOB AND ESPINOSA CANYON QUADRANGLES, MONTEREY COUNTY, CALIFORNIA

712-590 O - 64 (In pocket)