Lewis_la_1941 Lewis Lewis Map #2

EXPLANATION

Pleistocene-Recent	Qal	ALLUVIUM AND VALLEY FILL. *Alluvial fans and valley fill.*	QUATERNARY
	Qt	TERRACE DEPOSITS. *Dissected river gravels and alluvial fans.*	
Miocene	Tp	PUENTE FORMATION. *Diatomaceous shale, sandy shale, silt, buff sandstone, and conglomerate. Generally divided into the following members: Tp, uppermost Puente, arkosic sandstone and pebble beds; Tpss, upper Puente sandstone, light colored well sorted sandstone with some conglomerate; Tpsh, upper Puente shale, well bedded shale, sandy shale, and sandstone; Tplcg, upper Puente lower conglomerate, alternating conglomerate and sandstone beds, sandier towards base; Tplsh, upper Puente lower shale, brittle, platy micaceous shale; Tmpss, middle Puente sandstone, very coarse poorly bedded sandstone; Tlpsh, lower Puente shale, platy, gray-brown calcareous shale; Tlpss, lower Puente sandstone, coarse, poorly sorted sandstone and conglomerate.*	TERTIARY
	Tpss		
	Tpsh		
	Tplcg		
	Tplsh		
	Tmpss		
	Tlpsh		
	Tlpss		
Oligocene (?)	Tt	TEMBLOR FORMATION. *White to buff arkosic sandstone.*	
	Tvs	VAQUEROS (MIOCENE) AND SESPE (OLIGOCENE ?) FORMATIONS. *Variegated red and green clay, sandy clay, and white sandstone; poorly sorted material, probably of non-marine origin.*	
Eocene	Td	DOMENGINE FORMATION. *White to buff quartzose sandstone, shaly sandstone and conglomerate.*	
	Tmz slt	MARTINEZ FORMATION. *Divided into upper member (Tmz silt) consisting of tan-weathering siltstone and shale, and lower member (Tmz ark) of arkose with chlorite and clay zone near base.*	
	Tmz ark		
Upper Cretaceous	Kwp	WILLIAMS FORMATION. *Divided into Pleasants sandy shale and Schulz conglomerate.*	CRETACEOUS
	Kws		
	Klh	LADD FORMATION. *Divided into Holz shale and Baker conglomerate members. Probably includes the Trabuco formation of non-marine red conglomerate and sandstone.*	
	Klp		
	Bc	BASEMENT COMPLEX. *Slate carrying Triassic fossils and intruded by andesites.*	

SYMBOLS

- Contact
- Probable contact
- Beds
- Fault
- Probable fault
- Axis of anticline
- Axis of syncline
- A—B Section line
- Strike and dip of beds
- Horizontal beds
- Strike of vertical beds
- Overturned beds

REVISIONS	

GEOLOGY OF A PART OF

THE NORTHERN SANTA ANA MOUNTAIN REGION

CALIFORNIA

SCALE	DATE	APPROVED	DR BY L.A.L. TR BY CK BY F.D.B.	GEOLOGY BY LLOYD A. LEWIS
	6-1941			

1000 500 0 1000 2000 Feet

MAP NO. 1