Lewis
Map #1
Lewis

Lewis-la-1941

EXPLANATION

Pleistocene-Recent

Qal — ALLUVIUM AND VALLEY FILL
Alluvial fans and valley fill

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, granitic sandstone and pebble beds; Tpsh, 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; Tmss, 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.

Tpcg
Tpsh
Tmss
Tlpsh
Tlpss

Tt — TEMBLOR FORMATION
White to buff arkosic sandstone

Oligocene (?)

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 sst / **Tmz grs** — MARTINEZ FORMATION
Divided into upper member (Tmz sst) consisting of tan-weathering siltstone and shale, and lower member (Tmz grs) of arkose with chlorite and clay zone near base.

Upper Cretaceous

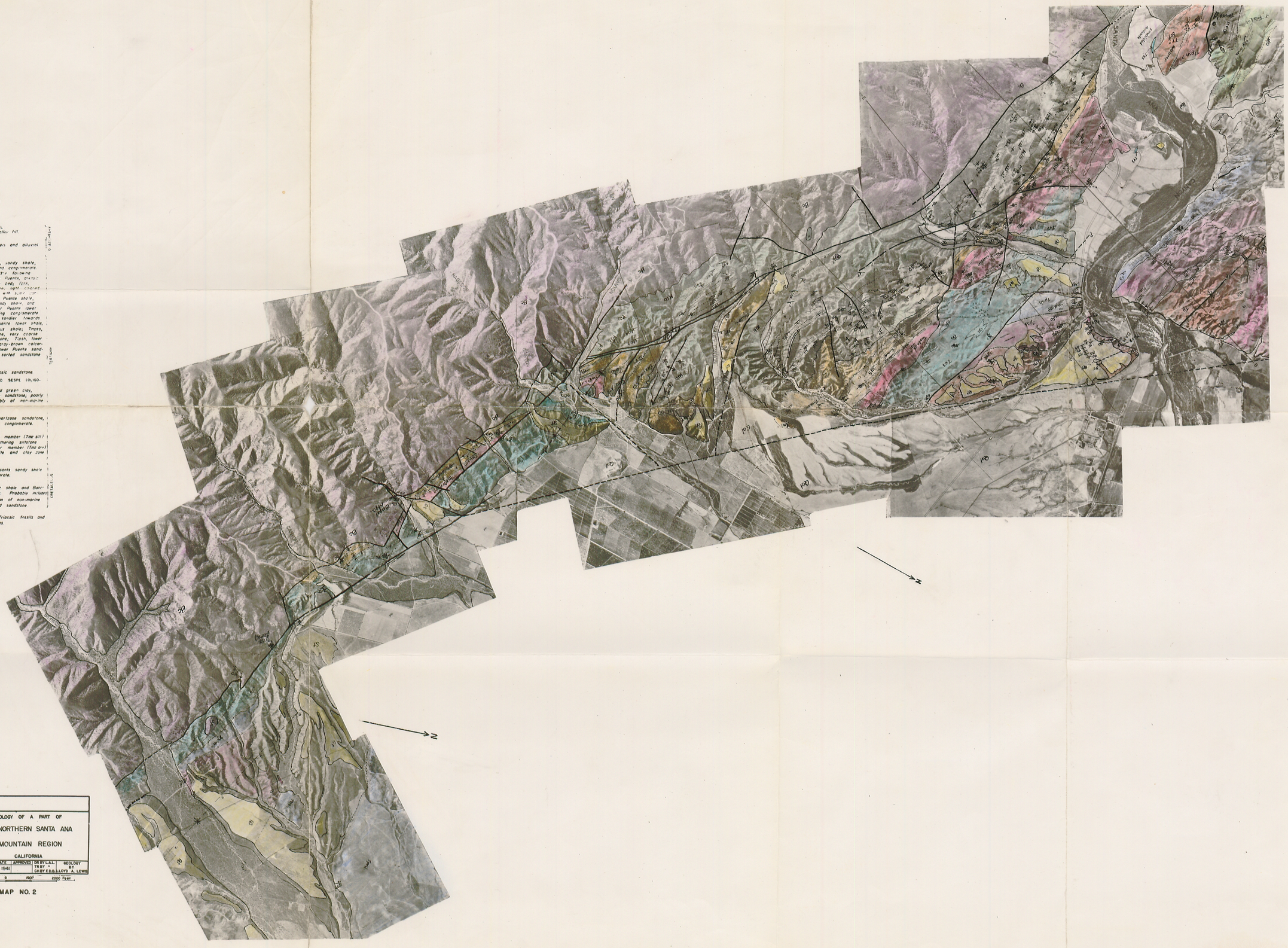
Kwp / **Kws** — WILLIAMS FORMATION
Divided into Pleasants sandy shale and Schulz conglomerate.

Kp / **Klb** — LADD FORMATION
Divided into Holz shale and Baker conglomerate members. Probably includes the Trabuco formation of non-marine red conglomerate and sandstone

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
- 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 - CH. BY F.D.B.	GEOLOGY BY LLOYD A. LEWIS
	6-1941			

1000 500 0 1000 2000 Feet

MAP NO. 2