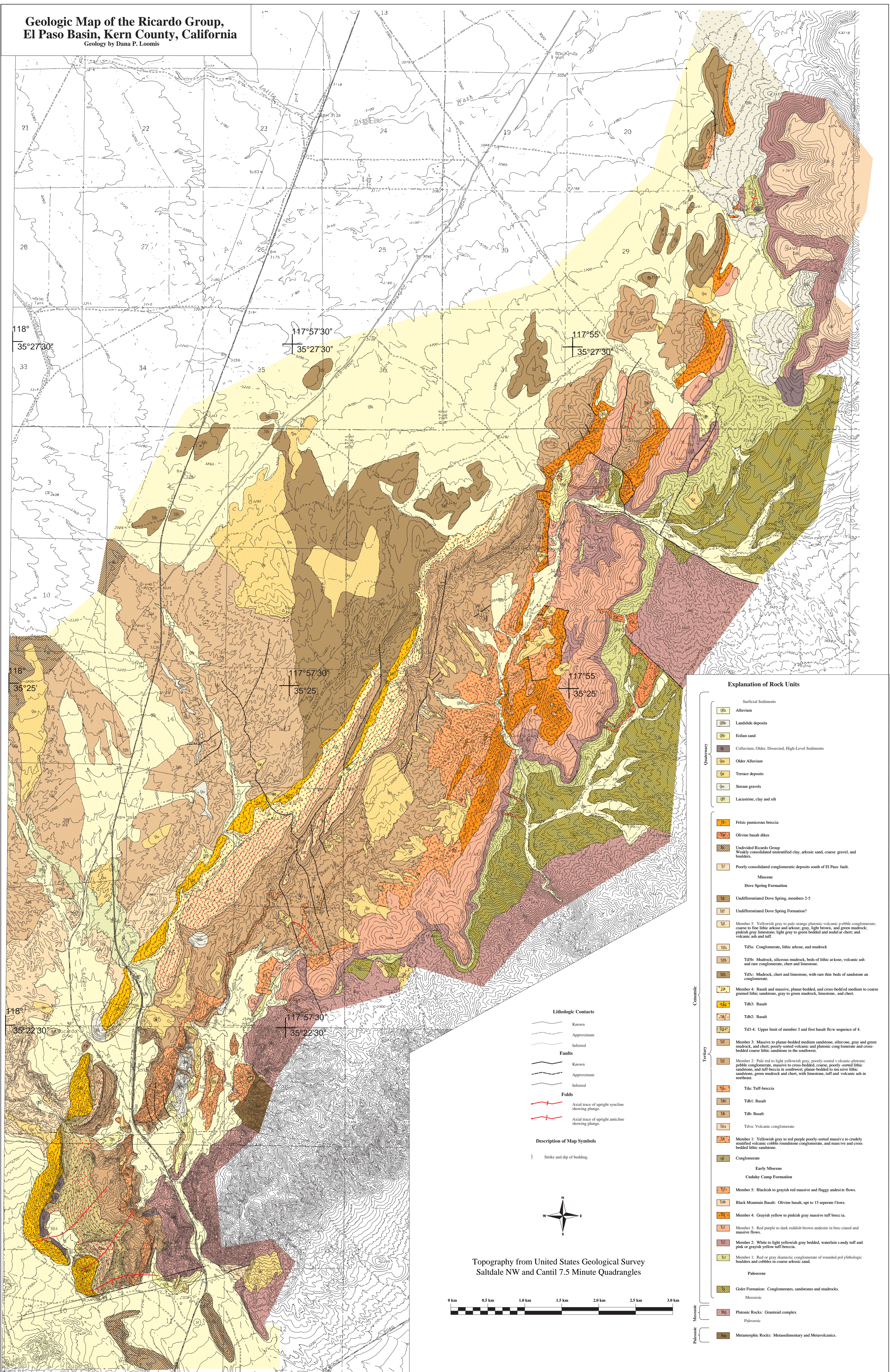


**Geologic Map of the Ricardo Group,
El Paso Basin, Kern County, California**
Geology by Dana P. Loomis



Explanation of Rock Units

- | | | | |
|------------|--|---|--|
| Quaternary | Qa | Alluvium | |
| | Qb | Landslide deposits | |
| | Qc | Eolian sand | |
| | Qd | Colluvium, Older, Dissected, High-Level Sediments | |
| | Qe | Older Alluvium | |
| | Qf | Terrace deposits | |
| | Qg | Stream gravels | |
| | Qh | Lacustrine, clay and silt | |
| | Cenozoic | Tc | Felsic, panmixeous breccia |
| | | Td | Olivine basalt dikes |
| Tu | | Undivided Ricardo Group
Weakly consolidated unstratified clay, arkosic sand, coarse gravel, and boulders. | |
| Tv | | Poory-consolidated conglomeratic deposits south of El Paso fault. | |
| Tertiary | | Dove Spring Formation | |
| | | Td5 | Undifferentiated Dove Spring, members 2-5 |
| | | Td6 | Undifferentiated Dove Spring Formation? |
| | | Td7 | Member 5: Yellowish gray to pale orange pliocene-volcanic pebble conglomerate; coarse to fine felsic arkose and arkose; gray, light brown, and green mudrock; pinkish gray limestone; light gray to green bedded and nodal chert; and volcanic ash and tuff. |
| | | Td8 | Td8a: Conglomerate, lithic arkose, and mudrock |
| | | Td9 | Td8b: Mudrock, siliceous mudrock, beds of lithic arkose, volcanic ash and rare conglomerate, chert and limestone. |
| | Td10 | Td8c: Mudrock, chert and limestone, with rare thin beds of sandstone conglomerate. | |
| | Td11 | Member 4: Basalt and massive, planar bedded, and cross-bedded medium to coarse grained lithic sandstone, gray to green mudrock, limestone, and chert. | |
| | Td12 | Td11: Basalt | |
| | Td13 | Td11: Basalt | |
| Td14 | Td11-4: Upper limit of member 3 and first basalt flow sequence of 4. | | |
| Td15 | Member 3: Massive to planar bedded medium sandstone, siltstone, gray and green mudrock, and chert, poorly sorted volcanic and pliocene; conglomeratic and cross-bedded coarse lithic sandstone in the southwest. | | |
| Td16 | Member 2: Pale red to light yellowish gray, poorly sorted volcanic-pliocene pebble conglomerate, massive to cross-bedded, coarse, poorly sorted lithic sandstone, and tuff breccia in southwest; planar bedded to massive lithic sandstone, green mudrock and chert, with limestone, tuff and volcanic ash in northeast. | | |
| Td17 | Td16: Tuff breccia | | |
| Td18 | Td16: Basalt | | |
| Td19 | Td16: Basalt | | |
| Td20 | Td16: Volcanic conglomerate | | |
| Td21 | Member 1: Yellowish gray to red purple poorly sorted massive to crudely stratified volcanic, cobble rhyolite conglomerate, and massive and cross bedded lithic sandstone. | | |
| Td22 | Conglomerate | | |
| Paleocene | Ca | Early Miocene | |
| | Ca1 | Cuddey Camp Formation | |
| | Ca2 | Member 5: Blackish to grayish red massive and flaggy andesite flows. | |
| | Ca3 | Black Mountain Basalt: Olivine basalt, up to 15 separate flows. | |
| | Ca4 | Member 4: Grayish yellow to pinkish gray massive tuff breccia. | |
| | Ca5 | Member 3: Red purple to dark reddish brown andesite in brecciated and massive flows. | |
| | Ca6 | Member 2: White to light yellowish gray bedded, waterlain sandy tuff and pink or grayish yellow tuff breccia. | |
| | Ca7 | Member 1: Red or gray diamicitic conglomerate of rounded poly-lithologic boulders and cobbles in coarse arkosic sand. | |
| | Mesozoic | Gf | Goler Formation: Conglomerates, sandstones and mudrocks. |
| | | Ma | Phanerozoic |
| Pa | | Phanerozoic | |
| Paleozoic | Ma | Phanerozoic | |
| | Me | Metamorphic Rocks: Metasedimentary and Metavolcanics. | |

- Lithologic Contacts**
- Known
 - Approximate
 - Inferred
- Faults**
- Known
 - Approximate
 - Inferred
- Folds**
- Axial trace of upright syncline showing plunge.
 - Axial trace of upright anticline showing plunge.
- Description of Map Symbols**
- Strike and dip of bedding.

