GEOLOGIC MAP
OF PARTS OF
LOS ANGELES AND VENTURA COUNTIES
CALIFORNIA

Scale as shown

Contour interval 50 feet except in Piru and Triunfo Pass quadrangles, where interval is 100 feet

Datum is mean sea level

1924

EXPLANATION

SEDIMENTARY ROCKS

Qal — Alluvium

UNCONFORMITY

Qt — Terrace deposits

UNCONFORMITY

Ts — Saugus formation
(Light-colored conglomerate and sandstone, with little shale; terrestrial in origin becoming marine toward west)

UNCONFORMITY

Tp — Pico formation
(Marine fine-grained gray to rusty laminated sandstone, coarse brown sandstone, and gray shale; abundantly fossiliferous; unconformable on Modelo in San Fernando Valley)

UNCONFORMITY

Tm — Modelo formation
(Principally siliceous, diatomaceous, and cherty shale; in Santa Monica Mountains, Tmm, in which are large lenses of coarse sandstone, Tms, 4,000 feet in maximum thickness; Tmc, coarse brown massive sandstone, commonly calcareous, conglomerate, and laminated siliceous clay, and diatomaceous shale)

UNCONFORMITY (?)

Tvp — Topanga formation
(Bedded marine sandstone, brown, tan, and gray, in part fossiliferous, and conglomerate; of middle Miocene age)

UNCONFORMITY (?)

Tv — Vaqueros formation
(On Little Sespe Creek, mainly gray sandy shales; in Simi Valley consists of brown conglomerate, coarse and fine sandstone. Marine; lower Miocene)

Tsp — Sespe formation
(Brown conglomeratic and red sandstone, with variegated fine sands and clays; nonmarine)

UNCONFORMITY

Tm (?) — Modelo (?) formation
(Mainly fine-grained buff marine sandstone and shale, in part diatomaceous, and tuff lenses)

UNCONFORMITY

Tmc — Mint Canyon formation
(Nonmarine, coarse conglomerate and sandstone with variegated sandstone and clay beds; contains a vertebrate fauna of upper Miocene age. Rests unconformably on Sespe (?) formation)

Tsp (?) — Sespe (?) formation
(Coarse nonmarine conglomerate, composed of fragments of granitic and metamorphic rocks, also hard fine conglomeratic lenses interbedded with thin layers of shale; in eastern areas these are interbedded or intruded at many horizons)

Tvs, Tsa, Tsb, Tsc, Tv — Tejon formation
(In Simi Valley, a brown medium- to coarse-grained sandstone, Tsa, 1,000 feet; in Las Virgenes Canyon, Tsb, a lower hard greenish-brown shale, Tv, a lower quartzitic hard sandstone, Tsc, a middle soft brown sandstone, Tvs, an upper hard brown sandstone, Tv, and at top about 200 feet of shale and sandstone, locally known as the "Calabasas" sandstone, Tsa. Marine; upper Eocene)

Tmg — Meganos formation
(Brown conglomeratic sandstone, and gray shale; abundantly fossiliferous; middle Eocene)

UNCONFORMITY (?)

Tmz — Martinez formation
(Conglomeratic sandstone, and brown and gray shale; abundantly fossiliferous; lower Eocene)

UNCONFORMITY

Kc — Chico formation
(Massive brown sandstone with thin beds of shale; 300 feet of calcareous sandstone at base containing Upper Cretaceous fossils)

UNCONFORMITY

pC — Pre-Jurassic metamorphic sedimentary rocks and intrusive granite of Jurassic (?) age

IGNEOUS ROCKS

Tvb — Andesite and basalt
(Extrusive and intrusive andesitic, andesitic breccia, mud flows, sheets, and conglomerate and compact basalt)

Boundary between geologic formations

Axis of anticline, showing direction of plunge and direction of dip if fold is overturned

Axis of syncline, showing direction of plunge and direction of dip if fold is overturned

Fault
(Full line, concealed; broken line, approximate; dotted line, concealed)

Dip of bed

Overturned bed

Horizontal bed

Producing oil well

Abandoned oil well

Dry hole, with show of oil

Abandoned gas well

Dry hole

Derrick or well being drilled

Limit of productive territory

Oil seep or brea deposit

Surface outcrop of oil sand

APPROXIMATE MEAN DECLINATION, 1924

Base from U. S. Geological Survey topographic maps

Geology by William S. W. Kew, Carroll M. Wagner, Walter A. English, and John P. Buwalda
Surveyed in 1917, 1918, 1919, and 1922

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