

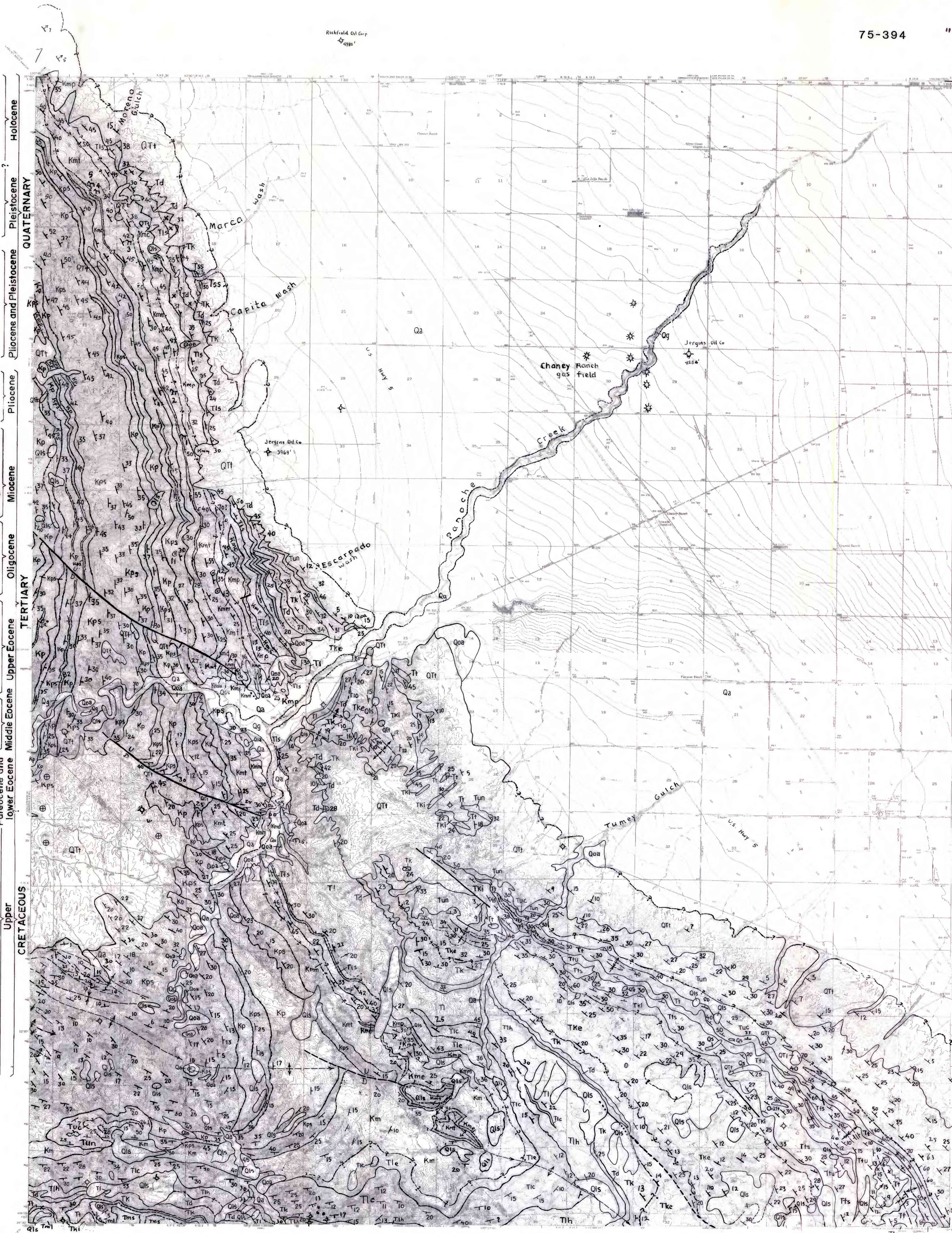
This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey standards and nomenclature.

U.S. GEOLOGICAL SURVEY
OPEN FILE MAP

75-394

"TUMEY HILLS"

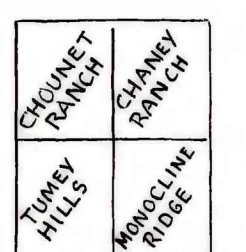
- | | |
|--|---|
| Qs/Qg
Qa | Surficial sediments
Qs, dune sand
Qg, gravel and sand of stream channels
Qa, alluvium (clay and sand) |
| Qls | Landslide rubble |
| Qoa | Older alluvium (gravel, sand and clay) |
| UNCONFORMITY | |
| QTt | Tulare Formation (terrestrial gravel, sand, clay and caliche) |
| QTI | Landslide rubble (landslide masses of Temblor Sandstone, of Tulare ?age) |
| UNCONFORMITY | |
| Tun/Tuc | Unnamed nonmarin sediments
Tun, sand gravel and clay
Tuc, clay, minor sand |
| Tms
Tml
Tt | Marine sedimentary rocks (middle Miocene)
Tms, sandstone, (fossilif.)
Tml, Monterey shale (semi-silic.)
Tt, Temblor Fm. (sandstone, locally pebbly, fos.) Ttc clayst. |
| Ttu/Tts
Tts | Tumey Formation (marine)
Ttu, semi-siliceous shale
Tts, sandstone |
| Tki
Tke
Tk | Kreyenhagen Shale
Tki, semi-siliceous shale
Tke, semi-siliceous and clayey shale
Tk, clayey shale |
| Td | Domengine Sandstone (including Yakut Sandstone of White, 1938; marine) |
| Tl
Tlh
Tlc
Tle | Lodo Form. (mar.)
Tl, clayst. undiff.
Tlh, Honda sh. Mbr.
Tlc, Cantua Sandstone Member
Tle, Cerros Sh. Mbr. |
| Tis | Laguna Seca Fm. (marine sandstone) |
| Kmp
Kmm
Kmf
Kmd | Moreno Shale (marine)
Km, undiff. micac. claystone
Kmc, Cima Sandst. Lentil
Kmp, Dos Puios Shale Member
Kmm, Marca (silic.) Shale Member
Kmf, Tierra Loma Shale Member
Kme, Mercy Sandstone Lentil
Kmd, Dosados Shale Member, includes Kms sandst. lentil (all members and lentils are of Payne, 1951) |
| Kp
Kps | Panoche Formation (marine)
Kp, clay shale
Kps, sandstone and minor shale |



- Anticline Syncline
Axis of fold showing direction of plunge
- Contact
Queried where gradational or approximately located
- Fault
Dashed where inferred; dotted where concealed; U, upthrown block; D, downthrown block, relatively
- Horizontal Inclined
Vertical Overturned
Strike and dip of strata
- Abandoned test hole drilled for oil or gas
Oil well Gas well

Compiled and mapped by
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Source of geologic mapping
Payne, 1951
1. Schoellhamer and Kinney, 1953
2. T.W. Dibblee Jr. field work
in 1971, 1974

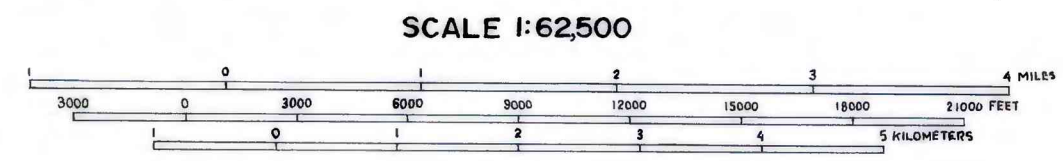


INDEX TO 7 1/2 MINUTE
QUADRANGLE BASE MAPS
SCALE 1:24000

x - Molluscan fossil locality

o - Approximate locality of ammonite fossils, all Maastrichtian age, Upper Cretaceous, in Moreno Shale (Kmt);
n - approximate locality of vertebrate (reptile) fossils in Moreno Shale (from Payne, 1960, fig. 3)

Base from published edition sheets



COMPILED BY T.W. DIBBLEE JR., 1975

References:
Payne, M.B., 1951, Type Moreno Formation, Fresno and Merced Counties, California: California Div. Mines Spec. Rept. 9
Schoellhamer, J.S., and Kinney, D.M., 1953, Geology of portions of Tumey and Panoche Hills, Fresno County, California: U.S. Geol. Survey oil and gas Inv. Map OM 128
Payne, M.B., 1960, Type Panoche, Panoche Hills area. Pac. Sec. S.E.P.M. 1960 spring field trip

GEOLOGIC MAP OF THE "TUMEY HILLS" QUADRANGLE, CALIFORNIA