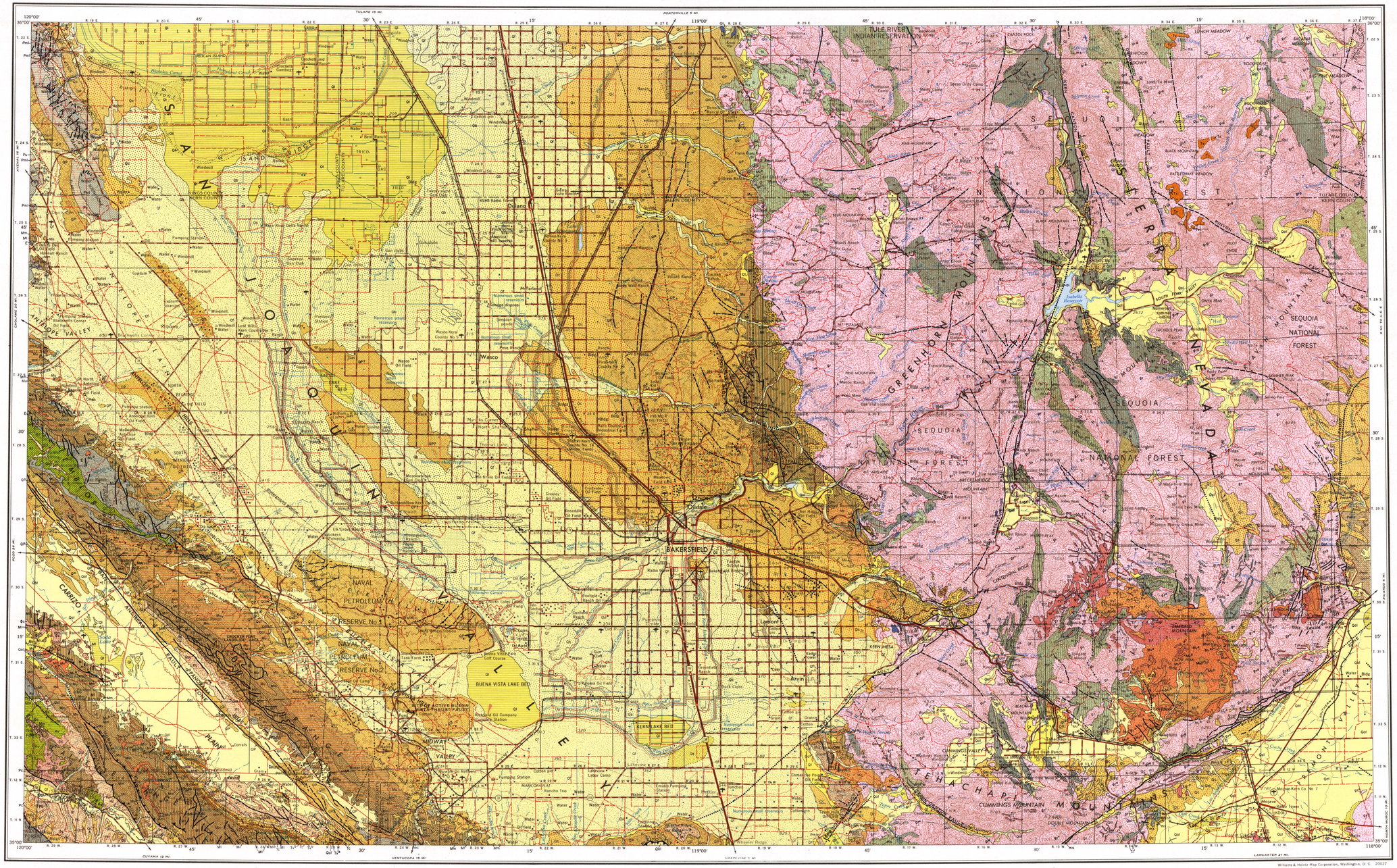
DIVISION OF MINES AND GEOLOGY
IAN CAMPBELL, CHIEF
GORDON B. OAKESHOTT, DEPUTY CHIEF

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF CONSERVATION

GEOLOGIC MAP OF CALIFORNIA
BAKERSFIELD SHEET



EXPLANATION

SEDIMENTARY AND METASEDIMENTARY ROCKS

CENOZOIC — QUATERNARY — Recent

- Qs — Dune sand
- Qal — Alluvium
- Qsc — Stream channel deposits (GREAT VALLEY)
- Qf — Fan deposits (GREAT VALLEY)
- Qb — Basin deposits (GREAT VALLEY)
- Qsf — Salt deposits
- Ql — Quaternary lake deposits
- Qg — Glacial deposits
- Qt — Quaternary nonmarine terrace deposits

QUATERNARY — Pleistocene

- Qm — Pleistocene marine and marine terrace deposits
- Qn — Pleistocene nonmarine
- QP — Plio-Pleistocene nonmarine

TERTIARY — Pliocene

- TPu — Undivided Pliocene nonmarine
- TPun — Upper Pliocene nonmarine
- Pu — Upper Pliocene marine
- TPmn — Middle and/or lower Pliocene nonmarine
- Pm — Middle and/or lower Pliocene marine

TERTIARY — Miocene

- TMu — Undivided Miocene nonmarine
- Mun — Upper Miocene nonmarine
- Mu — Upper Miocene marine
- Mmn — Middle Miocene nonmarine
- Mm — Middle Miocene marine
- Ml — Lower Miocene marine

TERTIARY — Oligocene

- Tn — Oligocene nonmarine
- O — Oligocene marine

TERTIARY — Eocene

- En — Eocene nonmarine
- E — Eocene marine

TERTIARY — Paleocene

- Pn — Paleocene nonmarine
- P — Paleocene marine

TERTIARY — Undivided

- Tn — Cenozoic nonmarine
- Tn — Tertiary nonmarine
- Tl — Tertiary lake deposits
- Tm — Tertiary marine

MESOZOIC — CRETACEOUS

- K — Undivided Cretaceous marine
- Ku — Upper Cretaceous marine
- Kl — Lower Cretaceous marine

MESOZOIC — JURASSIC

- Jk — Knoxville Formation
- Ju — Upper Jurassic marine
- Jm — Middle and/or Lower Jurassic marine

MESOZOIC — TRIASSIC

- TR — Triassic marine

Franciscan Formation (Fr)

- KJfv — Franciscan volcanic and metavolcanic rocks
- gr — Mesozoic granitic rocks: gr^a-granite and adamellite; gr^b-granodiorite; gr^c-tonalite and diorite
- Jb — Mesozoic basic intrusive rocks
- Ju — Mesozoic ultrabasic intrusive rocks
- JTRv — Jura-Trias metavolcanic rocks

PALEOZOIC — UNDIVIDED

- PMz — Pre-Cretaceous metamorphic rocks (ls = limestone or dolomite)
- PMs — Pre-Cretaceous metasedimentary rocks
- P ls — Paleozoic marine (ls = limestone or dolomite

PALEOZOIC — PERMIAN

- Pl — Permian marine

PALEOZOIC — CARBONIFEROUS

- C — Undivided Carboniferous marine
- Cp — Pennsylvanian marine
- Cm — Mississippian marine

PALEOZOIC — DEVONIAN

- D — Devonian marine

PALEOZOIC — SILURIAN

- S — Silurian marine

PALEOZOIC — ORDOVICIAN

- Ps — Pre-Silurian metasedimentary rocks
- pSs — Pre-Silurian metamorphic rocks
- pSv — Pre-Silurian metavolcanic rocks
- O — Ordovician marine

PALEOZOIC — CAMBRIAN

- Cambrian marine
- Cambrian – Precambrian marine

PRECAMBRIAN

- pCu — Undivided Precambrian metamorphic rocks: pCg = gneiss, pCs = schist
- pCu — Undivided Precambrian granitic rocks
- pCsc — Later Precambrian sedimentary and metamorphic rocks
- pCsc — Earlier Precambrian metamorphic rocks
- pCgr — Precambrian igneous and metamorphic rock complex
- pCan — Precambrian anorthosite

IGNEOUS AND META-IGNEOUS ROCKS

- Qv — Recent volcanic: Qv^r—rhyolite; Qv^a—andesite; Qv^b—basalt; Qv^p—pyroclastic rocks
- Qpv — Pleistocene volcanic: Qpv^r—rhyolite; Qpv^a—andesite; Qpv^b—basalt; Qpv^p—pyroclastic rocks
- Quaternary and/or Pliocene cinder cones
- Pv — Pliocene volcanic: Pv^r—rhyolite; Pv^a—andesite; Pv^b—basalt; Pv^p—pyroclastic rocks
- Mv — Miocene volcanic: Mv^r—rhyolite; Mv^a—andesite; Mv^b—basalt; Mv^p—pyroclastic rocks
- Ov — Oligocene volcanic: Ov^r—rhyolite; Ov^a—andesite; Ov^b—basalt; Ov^p—pyroclastic rocks
- Ev — Eocene volcanic: Ev^r—rhyolite; Ev^a—andesite; Ev^b—basalt; Ev^p—pyroclastic rocks
- QTv — Cenozoic volcanic: QTv^r—rhyolite; QTv^a—andesite; QTv^b—basalt; QTv^p—pyroclastic rocks
- Tv — Tertiary intrusive (hypabyssal) rocks: Tv^r—rhyolite; Tv^a—andesite; Tv^b—basalt
- Tv — Tertiary volcanic: Tv^r—rhyolite; Tv^a—andesite; Tv^b—basalt; Tv^p—pyroclastic rocks
- KJv — Franciscan volcanic and metavolcanic rocks
- gr — Mesozoic granitic rocks: gr^a-granite and adamellite; gr^b-granodiorite; gr^c-tonalite and diorite
- Jb — Mesozoic basic intrusive rocks
- Ju — Mesozoic ultrabasic intrusive rocks
- JTRv — Jura-Trias metavolcanic rocks
- Mv — Pre-Cretaceous metavolcanic rocks
- pCv — Pre-Cenozoic granitic and metamorphic rocks
- pPv — Paleozoic metavolcanic rocks
- Pv — Permian metavolcanic rocks
- Cv — Carboniferous metavolcanic rocks
- Dv — Devonian metavolcanic rocks
- Dvf — Devonian and pre-Devonian? metavolcanic rocks
- pSv — Pre-Silurian metavolcanic rocks

HEAVY BORDER ON BOXES INDICATES UNITS THAT APPEAR ON THIS SHEET

TOPOGRAPHIC BASE MAP

Prepared by the Army Map Service (KC), Corps of Engineers, U.S. Army, Washington, D.C. Compiled in 1961 by photogrammetric methods and from United States Geological Survey, 1:24,000, 1:25,000, 1:48,000, 1:50,000, 1:62,500, U.S. Geological Survey and AMS, 1931-56. Planimetric detail revised by photo-planimetric methods. Horizontal and vertical control by USGS, USC&GS, USFS, USBR, 29th Engineer Battalion and City of Los Angeles. Map field checked 1962.

Land Net prepared by U.S. Geological Survey

Minor corrections and additions to culture by California Division of Mines and Geology, 1964.

LOCATION OF BAKERSFIELD SHEET

Contact
(Dashed where approximately located, gradational or inferred)

Fault
(Dashed where approximately located; dotted where concealed)

Thrust fault
(Barbs on upper plate; dashed where approximately located, dotted where concealed)

Scale 1:250,000

5 0 5 10 15 20 Statute Miles

5 0 5 10 15 20 25 30 Kilometers

CONTOUR INTERVAL 200 FEET

TRANSVERSE MERCATOR PROJECTION

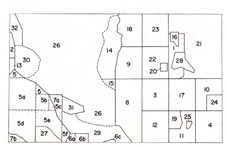
GEOLOGIC MAP OF CALIFORNIA

OLAF P. JENKINS EDITION

BAKERSFIELD SHEET

COMPILATION BY ARTHUR R. SMITH, 1964

THIRD PRINTING, 1975



INDEX TO GEOLOGIC MAPPING
(COMPLETE INDEX ON EXPLANATORY DATA SHEET)

1. Alvarez, Leonardo, unpublished.
2. Brooks, Tennent J., 1955.
3. Dibblee, Thomas W. Jr., and Chesterman, Charles W., 1953.
4. Dibblee, Thomas W. Jr., 1955.
5. Dibblee, Thomas W. Jr., 1962.
6. Dibblee, Thomas W. Jr., 1961.
7. Dibblee, Thomas W. Jr., unpublished.
8. Dibblee, Thomas W. Jr., unpublished.
9. Dibblee, Thomas W. Jr., unpublished.
10. Dibblee, Thomas W. Jr., unpublished.
11. Dibblee, Thomas W. Jr., unpublished.
12. Dibblee, Thomas W. Jr., and Warne, Archer H., unpublished.
13. Hankla, Henry H., and MacLeod, George M., 1951.
14. Hinson, G. S., McClelland, E. J., Klausing, R. L., and Kunkel, Fred., 1954.
15. Hoots, Harold W., Bear, Ted L., and Kleinpell, William D., 1954.
16. Jenkins, Sidney F., unpublished.
17. Louke, Gladys P., unpublished.
18. Louke, Gladys P., unpublished.
19. Louke, Gladys P., unpublished.
20. MacKevett, Edward M., Jr., 1950.
21. Miller, William J., and Webb, Robert W., 1940.
22. Morton, Paul K., and Troxel, Bennie W., unpublished.
23. Morton, Paul K., and Troxel, Bennie W., unpublished.
24. Samsel, Howard S., 1962.
25. Smith, George I., unpublished.
26. U. S. Dept. of Agriculture Soil Surveys, 1942, 1945, 1946.
27. Vedder, John L., unpublished.
28. Weiss, Lionel E., and Best, Myron G., unpublished.
29. Wood, Perry R., and Dale, Robert H., 1964.
30. Wood, Perry R., and Davis, George H., 1959.
31. Woodring, Wendell P., Bramlette, M. N., Kew, W. S. W., and Renk, W. Stephen, 1936.
32. Woodring, Wendell P., Stewart, Ralph, and Richards, R. W., 1940.

Williams & Heintz Map Corporation, Washington, D. C. 20027