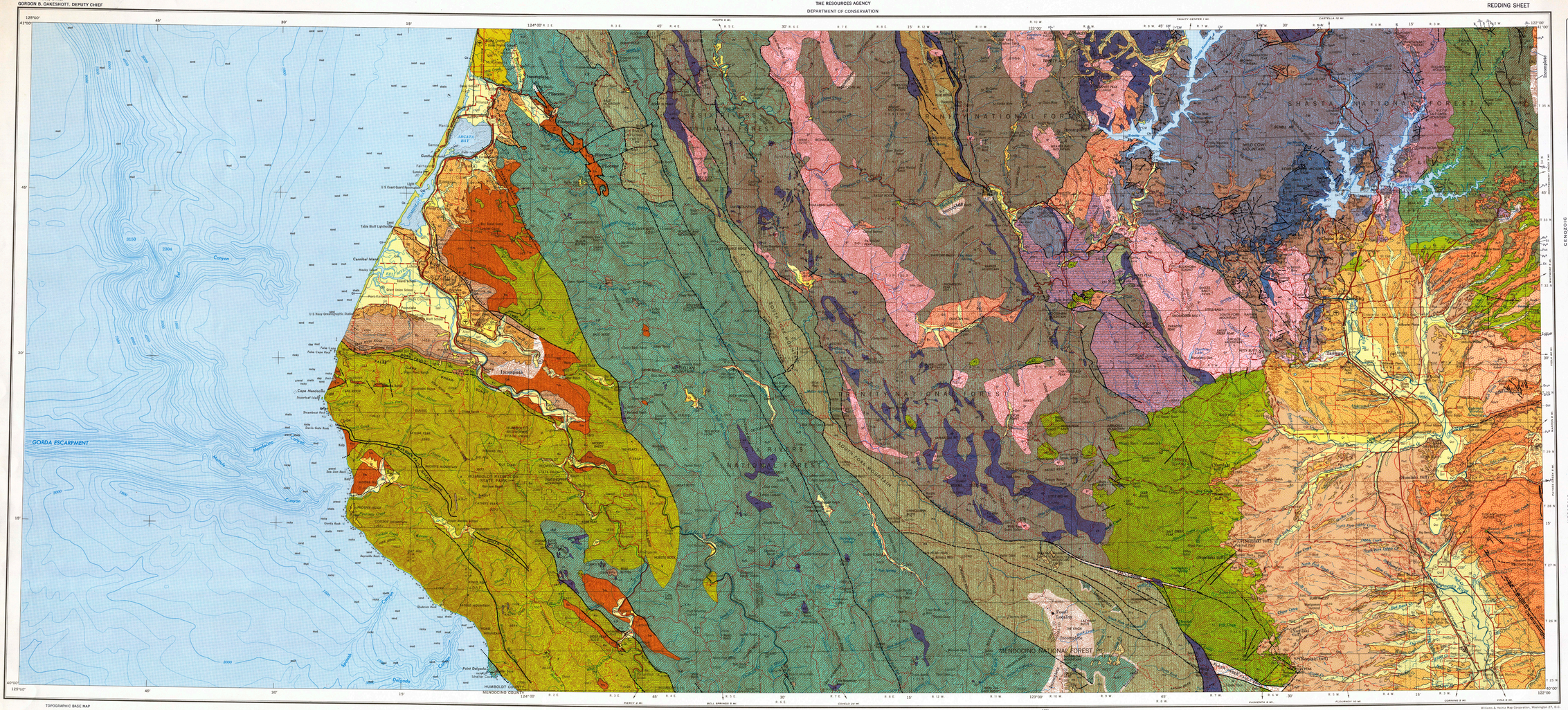
DIVISION OF MINES AND GEOLOGY
IAN CAMPBELL, CHIEF
GORDON B. OAKESHOTT, DEPUTY CHIEF

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF CONSERVATION

GEOLOGIC MAP OF CALIFORNIA
REDDING SHEET



TOPOGRAPHIC BASE MAP

Prepared by the Army Map Service (ACSC), Corps of Engineers, U.S. Army, Washington, D. C. Compiled in 1957 from United States Quadrangles, 1:25,000, 1:48,000, 1:50,000, 1:62,500, U.S. Geological Survey and AMS, 1942-55. Planimetric detail revised by photo-planimetric methods. Horizontal and vertical control by USGS and C&E. Map field checked 1958.

Land net prepared by U. S. Geological Survey, 1960.

Submarine contours adapted from Shepard and Emery Special Paper No. 31, Geol. Soc. America

SUBMARINE CONTOUR INTERVAL 300 FEET

Local depressions

Limit of danger: Reef
Rocks: Awash; Sunken
Foreshore flat
Intermittent or dry stream
Marsh or swamp

Contact
(Dashed where approximately located, gradational or inferred)

Fault
(Dashed where approximately located; dotted where concealed)

Scale 1:250,000

CONTOUR INTERVAL 200 FEET
WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS

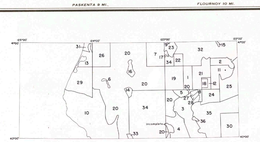
GEOLOGIC MAP OF CALIFORNIA

OLAF P. JENKINS EDITION

REDDING SHEET

COMPILATION BY RUDOLPH G. STRAND 1962
SECOND PRINTING, 1969

LOCATION MAP FOR REDDING SHEET



EXPLANATION

SEDIMENTARY AND METASEDIMENTARY ROCKS

CENOZOIC — QUATERNARY — Recent

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

Pleistocene

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

Pliocene

- P̄n — Undivided Pliocene nonmarine
- Pnu — Upper Pliocene nonmarine
- Pu — Upper Pliocene marine
- Pnm — Middle and/or lower Pliocene nonmarine
- Pml — Middle and/or lower Pliocene marine

TERTIARY — Miocene

- Mn — Undivided Miocene nonmarine
- Mnu — Upper Miocene nonmarine
- Mu — Upper Miocene marine
- Mnm — Middle Miocene nonmarine
- Mm — Middle Miocene marine
- Ml — Lower Miocene marine

Oligocene

- Onm — Oligocene nonmarine
- O — Oligocene marine

Eocene

- En — Eocene nonmarine
- E — Eocene marine

Paleocene

- Pcn — Paleocene nonmarine
- Pc — Paleocene marine

Undivided

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

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
- TCv — Cenozoic volcanic: TCv^r—rhyolite; TCv^a—andesite; TCv^b—basalt; TCv^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

MESOZOIC — CRETACEOUS

- K — Undivided Cretaceous marine
- Ku — Upper Cretaceous marine
- Kl — Lower Cretaceous marine
- Kn — Knoxville Formation

JURASSIC

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

TRIASSIC

- TR — Triassic marine

Franciscan Formation

- Fr — Franciscan volcanic and metavolcanic rocks
- Vi — Mesozoic granitic rocks
- Vb — Mesozoic basic intrusive rocks
- Vu — Mesozoic ultrabasic intrusive rocks
- Jtv — Jura-Trias metavolcanic rocks

PALEOZOIC — UNDIVIDED

- PZ — Pre-Cretaceous metamorphic rocks (lm = limestone or dolomite)
- PZ — Pre-Cretaceous metasedimentary rocks
- P — Paleozoic marine (lm = limestone or dolomite)
- Pzv — Pre-Cretaceous metavolcanic rocks
- gPz — Pre-Cretaceous granitic and metamorphic rocks
- Pv — Paleozoic metavolcanic rocks

PERMIAN

- P — Permian marine
- Pv — Permian metavolcanic rocks

CARBONIFEROUS

- C — Undivided Carboniferous marine
- Cv — Carboniferous metavolcanic rocks
- CP — Pennsylvanian marine
- CM — Mississippian marine

DEVONIAN

- D — Devonian marine
- Dv — Devonian metavolcanic rocks
- Dmv — Devonian and pre-Devonian? metavolcanic rocks

SILURIAN

- S — Silurian marine
- SMz — Pre-Silurian metasedimentary rocks
- SMv — Pre-Silurian metamorphic rocks

ORDOVICIAN

- O — Ordovician marine
- OMv — Pre-Silurian metavolcanic rocks

CAMBRIAN

- Є — Cambrian marine
- Є — Cambrian – Precambrian marine

PRECAMBRIAN

- pЄ — Undivided Precambrian metamorphic rocks (pЄg = gneiss, pЄs = schist)
- pЄz — Later Precambrian sedimentary and metamorphic rocks
- pЄz — Earlier Precambrian metamorphic rocks
- pЄgr — Undivided Precambrian granitic rocks

HEAVY BORDER ON BOXES INDICATES UNITS THAT APPEAR ON THIS SHEET

Williams & Heintz Map Corporation, Washington 27, D.C.

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

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2. Albers, J. P. and Robertson, J. F. (in press)
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