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Pamphlet accompanies map
GEOLOGIC MAP OF THE CUDDY VALLEY QUADRANGLE,
KERN AND VENTURA COUNTIES, CALIFORNIA
By
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2003
Base from U.S. Geological Survey, 1991.
Lambert Conformal Conic projection,
1927 North American Datum.
Geology was mapped 1999-2000.
Digital assistance by Kenzie J. Turner.
This map is preliminary and has not been
reviewed for conformity with U.S. Geological
Survey editorial standards or with the North
American Stratigraphic code.

This map was produced on request, directly from
digital files, on an electronic plotter. It is also
available as a PDF file at: http://geopubs.usgs.gov/

LIST OF MAP UNITS

SURFICIAL DEPOSITS

Qa Alluvium (Holocene)

Qac Alluvium and colluvium, undivided (Holocene)

Qw Wetland deposits (Holocene)

Qls Landslide deposits (Holocene and/or Pleistocene)

Qf1 Younger fan deposits (Holocene and upper Pleistocene)

Qtr Travertine (Holocene? and upper Pleistocene)

Qf2 Older fan deposits (Holocene? and upper Pleistocene)

Qf3 Highly dissected fan deposits (middle? Pleistocene)

Qd Diamicton (middle? Pleistocene)

Qg High-level gravel (Pleistocene)

BEDROCK UNITS SOUTH OF THE SAN ANDREAS FAULT

Tq Brown member

Tlc Caliente Lockwood Clay (Pliocene?), Formation (Miocene)

Tcm Metamorphic-clast member

Tcua Upper arkosic member

Tcc Volcanic-clast conglomerate member

Tcs Green claystone and sandstone member

Tcu Caliente Formation, undifferentiated

Tfp Felsite porphyry sill (lower Miocene?), Plush Ranch Formation (lower Miocene and upper Oligocene)

Tpb Granite- and gneiss-breccia member

Tps Sandstone member

Tpl Lacustrine member

Tpgy Gypsum bed

Tpbx Granite-megabreccia

Tpba Basalt member

Tpsr Red-bed member

Tpc Basal conglomerate

Tmsh Marine shale (lower Eocene)

Tmy Sawmill Mountain mylonite (Paleocene?)

Tpsh Pelona Schist (lower Paleocene)

Kgp Granite of Mt. Pinos (Cretaceous)

Kgpb Border phase

Kgrn Granite of Cerro Noroeste (Cretaceous)

Kgdg Granodiorite gneiss (Cretaceous)

Kbg Biotite gneiss (Cretaceous?)

Xag Frazier Mountain augen gneiss? (Early Proterozoic?)

Xqfg Quartzofeldspathic gneiss (Early Proterozoic)

BEDROCK UNITS NORTH OF THE SAN ANDREAS FAULT

TKrp Felsite porphyry (Pliocene? to Cretaceous)

TKbs Biotite schist (Paleocene or Cretaceous)

Kgd Quartz diorite and granodiorite (Cretaceous)

Kdi Diorite (Cretaceous)

Metamorphic rocks in roof pendants and inliers in granitic rocks (Jurassic, Triassic and/or Paleozoic)

JTrbg Biotite gneiss

JTrmg Gray marble

JTrqz Quartzite

BECROCK UNITS IN THE SAN ANDREAS FAULT ZONE

QTsf Pervasively sheared, comminuted, and fractured rocks (Holocene to Miocene)-- shown on cross section only

Twa White arkosic sandstone and conglomerate (Miocene?)

Contact--Dashed where approximately located, dotted where concealed; showing dip, where known Tms Marine shale and sandstone (Miocene? to Eocene?)

Fault--Dashed where approximately located; dotted where concealed

Normal fault--Dashed where approximately located; dotted where concealed; bar and ball on downthrown side

Thrust fault--Dashed where approximately located; dotted where concealed; sawteeth on upper plate

Reverse fault--dashed where approximately located; dotted where concealed; rectangles in upper plate

Fault trace in San Andreas fault zone--Hachures toward downthrown side, where known; suspected trace of the 1857 Ft. Tejon earthquake scarp indicated (Davis and Duebendorfer, 1987)

Fracture trace--Hachures on downthrown side, where known. Inferred to be caused by gravitational settling in granitic or gneissic rocks; some may be incipient landslide scarps

Anticline--Trace of axial plane; dotted where concealed; showing direction of plunge of fold axis

Overturned anticline--Trace of axial plane; dotted where concealed

Sheared rock--oriented in direction of shearing

Strike and dip of beds

Inclined

Vertical

Overturned

Horizontal

Approximate strike and dip of beds

Inclined

Strike and dip of jointing

Inclined

Vertical

Strike and dip of foliation

Inclined

Vertical

Bearing and plunge of lineation

Strike and dip of foliation and bearing and plunge of associated lineation