

U.S DEPARTMENT OF THE INTERIOR  
U.S. GEOLOGICAL SURVEY

GEOLOGIC MAP OF THE LOCKWOOD VALLEY QUADRANGLE,  
VENTURA COUNTY, CALIFORNIA

OPEN FILE REPORT 99-130

Version 1.1

Pamphlet accompanies map

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Base from U.S. Geological Survey, 1991

Lambert conformal conic projection, 1927 North American Datum

10,000-foot grid ticks: California Coordinate System, zone 5

1000-meter Universal Transverse Mercator grid, zone 11

Geology was mapped 1996-1997.

Digital Cartography by T. R. Brandt.

Cartographic assistance from O.D. Young.

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.

LIST OF MAP UNITS

Alluvium (Holocene)

Colluvium (Holocene)

Alluvium, loess, and colluvium, undifferentiated (Holocene)

Landslide deposits (Holocene)

Talus (Holocene)

Debris-flow deposit (Holocene and upper Pleistocene)

Older landslide deposit (upper? Pleistocene)

Older alluvium (upper? Pleistocene)

Boulder diamicton (Pleistocene)

High-level conglomerate (lower? Pleistocene)

Quatal Formation (Pliocene)

Sandstone and conglomerate member

Sandstone and siltstone member

Arkosic member

Brown member

Green claystone and sandstone member

Lockwood Clay (Pliocene or Miocene)

Caliente Formation, undifferentiated (Miocene)

Green claystone and sandstone member

Juncal Formation (Eocene)

Mixed shale and sandstone member

Sandstone member

Conglomerate member

Quartz monzonite of Sheep Creek (Upper Cretaceous)

Granodiorite of Lockwood Mountain (Upper Cretaceous)

Frazier Mountain augen gneiss (Lower Proterozoic)

Biotite gneiss (Lower Proterozoic)

Quartzofeldspathic gneiss (Lower Proterozoic)

Contact -- Dashed where approximately located, dotted where concealed

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

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

Tear fault -- Dashed where approximately located; dotted where

concealed; arrows show apparent strike-slip movement

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

Plunging anticline -- Trace of axial plane; dotted where concealed; showing direction of plunge

Plunging anticline -- Trace of axial plane; dashed where inferred; dotted where concealed; showing direction of plunge

Overtured anticline -- Trace of axial plane

Overtured syncline -- Trace of axial plane; dotted where concealed

Strike and dip of beds

- Inclined
- Inclined -- from Dibblee (1979)
- Inclined -- approximate
- Horizontal
- Overtured

Strike and dip of foliation

- Inclined
- Vertical

Bearing and plunge of lineation

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

Uranium - Lead zircon date (W.R. Premo, unpub. data, 1997)