Wood-dj-1997

PLATE 1

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

CUMMINGS MTN. QUADRANGLE
CALIFORNIA—KERN CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

TEHACHAPI SOUTH QUADRANGLE
CALIFORNIA—KERN CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

GEOLOGY LIBRARY
California Institute of Technology

118°37'30"
35°07'30"
118°30'
118°22'30"
35°00'
(BEAR MTN.)
(KEENE)
(TEHACHAPI NORTH)
(TEJON RANCH)
(MONOLITH)
(WILLOW SPRINGS)
(WINTERS RIDGE)
(LIEBRE TWINS)
(TYLERHORSE CANYON)
BAKERSFIELD 31 MI
KEENE (CALIF. 58) 9 MI
TEHACHAPI P.O. 3.2 MI
WHITE OAK LODGE 3.5 MI
CALIFORNIA CORRECTIONAL INSTITUTION
CUMMINGS VALLEY
BRITE VALLEY
TEHACHAPI VALLEY
Tehachapi
Cummings Mtn
Double Mtn
Oak Creek Pass
OAK CREEK
Tejon Canyon
Horsethief Canyon
Cedar Canyon
Water Canyon
Live Oak Canyon
White Cow Canyon
Pitney Canyon
Bean Canyon
Burham Canyon
Gamble Spr Canyon
Five Points
LANDING FIELD
A
A'
B
B'
C
C'
D
D'
E
E'
Qa
Qoa
Qls
g
gg
P
pt
m
c
lg
ag
dg
gdg
bc
mc
mv
Tw
Tv
ow
rs
F3
F6

Heavy dotted line is western limit of detailed mapping in this study.

Approximate area of "gumdrop" quartz diorite that is transitional in composition between the gabbro and tonalite.

GEOLOGY OF THE EASTERN TEHACHAPI MOUNTAINS

(SEE PLATE 2 FOR THE MAP EXPLANATION)

Mapped at 1:6,000, 1:12,000, and 1:24,000 scale, compiled at 1:24,000 scale.

The cross sections accompanying this map are shown in Plate 3.

This map is part of a Ph.D. thesis in geology by David J. Wood at the California Institute of Technology, Pasadena, CA.

Mapped, edited, and published by the Geological Survey
Control by USGS and USC&GS
Topography by photogrammetric methods from aerial photographs taken 1963. Field checked 1966
Polyconic projection. 1927 North American datum
10,000-foot grid based on California coordinate system, zone 5
1000-meter Universal Transverse Mercator grid ticks, zone 11, shown in blue
To place on the predicted North American Datum 1983, move the projection lines 6 meters north and 85 meters east as shown by dashed corner ticks
Fine red dashed lines indicate selected fence lines
Map photoinspected 1973
No major culture or drainage changes observed

UTM GRID AND 1968 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 40 FEET
DOTTED LINES REPRESENT 20-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION
Medium-duty
Light-duty
Unimproved dirt

QUADRANGLE LOCATION

CUMMINGS MTN., CALIF.
N3500—W11830/7.5
1966
PHOTOINSPECTED 1973
DMA 2254 II SE—SERIES V895

Mapped, edited, and published by the Geological Survey
Control by USGS and USC&GS
Topography by photogrammetric methods from aerial photographs taken 1963. Field checked 1966
Polyconic projection. 1927 North American datum
10,000-foot grid based on California coordinate system, zone 5
1000-meter Universal Transverse Mercator grid ticks, zone 11, shown in blue
Fine red dashed lines indicate selected fence lines
Revisions shown in purple compiled from aerial photographs taken 1973. This information not field checked

UTM GRID AND 1973 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 40 FEET
DOTTED LINES REPRESENT 20-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

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Geology by David J. Wood 1990-1994

Outside of area of detailed mapping of this study the geology is compiled from Ross (1989), Dibblee and Louke (1970), Dibblee and Warne (1970), Sams (1986), Sharry (1981), and Clark (1973).

ROAD CLASSIFICATION
Primary highway, all weather, hard surface
Light-duty road, all weather, improved surface
Secondary highway, all weather, hard surface
Unimproved road, fair or dry weather
State Route

QUADRANGLE LOCATION

TEHACHAPI SOUTH, CALIF.
N3500—W11822.5/7.5
1966
PHOTOREVISED 1973
AMS 2354 III SW—SERIES V895