

1959 NE  
(BUCKWALL MTN)



- JURASSIC PHYLLITE AND GREENSCHIST**
- $S_1$  = DOMINANT PHYLLITIC CLEAVAGE AND LITHOLOGIC LAYERING
- THE CALAVERAS COMPLEX**
- $S_0$  = BEDDING
  - $S_1$ : FLATTENING FOLIATION,  $F_1$  FOLD AXIS
  - $S_2$  = SLIP CLEAVAGE,  $F_2$  FOLD AXIS
- THE SHOOF FLY COMPLEX**
- $S_1$  OR  $S_2$  = PRE-THRUST SCHISTOSITY,  $F_1$  OR  $F_2$  AXIS
  - $S_3$  = CALAVERAS-SHOOF FLY THRUST FOLIATION,  $F_3$  AXIS
  - $S_4$  = SLIP CLEAVAGE,  $F_4$  AXIS
  - YOUNGER CROCKWATER CLEAVAGE,  $S_5, S_6, S_7$
  - AXIAL SURFACES OF FOLDS,  $F_1, F_2, F_3$ , ETC.
  - SYMBOLS CAN BE MIXED, POINT OF INTERSECTION IS OBSERVATION POINT.
  - AREAS OF MORE OR LESS CONTINUOUS EXPOSURE OF BEDROCK
- LEGEND**
- gr GRANITIC ROCKS
  - gb GABROIC ROCKS
  - Jp JURASSIC PHYLLITE AND GREENSCHIST
  - Jq
  - P2u UPPER PALEOZOIC-LOWER MESOZOIC(?) CALAVERAS COMPLEX
  - P2l LOWER PALEOZOIC SHOOF FLY COMPLEX
  - CALAVERAS-SHOOF FLY THRUST
  - - - - - INFERRED
  - ▽ UNNAMED THRUST
  - ◇
  - △ OVERTURNED
  - LITHOLOGIC CONTACT
  - - - - - INFERRED
- SOME LITHOLOGIC CONTACTS AND SOME GRANITE CONTACTS FROM O.E. BOWEN, 1969.

SCALE 1:24,000

0 1000 2000 3000 4000 5000 6000 7000 FEET

0 1 2 3 4 5 KILOMETER

CONTOUR INTERVAL 50 FEET  
NATIONAL GEODETIC VERTICAL DATUM OF 1929

Geology By:  
Charles Merguerian (1981)

ROAD CLASSIFICATION

- Medium duty
- Light duty
- Unimproved dirt
- State Route



GROVELAND, CALIF.  
SW/4 TUOLUMNE 15' QUADRANGLE  
N3745-W12007 5/7.5

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

1947  
PHOTOREVISED 1973  
AMS 1959 I SW-SERIES V895

1959 NE  
(BUCKHORN PEAK)