UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PROFESSIONAL PAPER 470
PLATE 7

STRUCTURE MAP OF THE MOUNT TOM, BISHOP, BIG PINE, AND PART OF THE MOUNT GODDARD 15-MINUTE QUADRANGLES, CALIFORNIA

EXPLANATION

- Alluvial deposits
- Olivine basalt
- Bishop tuff and rhyolite south of Big Pine
- Granitic rocks
  Showing contacts between plutons. Dashed where approximately located
- Diorite and quartz diorite
- Felsic dikes
  Part of swarm along Pine Creek shown diagrammatically by dashed lines
- Mafic dikes
- Metamorphic rocks and Cambrian sedimentary rocks
- Contact
  Dashed where approximately located
- Fault, showing dip and horizontal component of movement
  Dashed where approximately located; dotted where concealed
- High angle faults with scarps
  Diagonal lines are on downthrown side
- Lineaments in alluvial deposits
  Lines visible on aerial photographs; faults of small displacement
- Fault breccia
- Anticline
  Showing trace of axial plane
- Overturned anticline
  Showing trace of axial plane and bearing and plunge of axis
- Anticlinal warp axis in Bishop tuff
- Syncline
  Showing trace of axial plane
- Overturned syncline
  Showing trace of axial plane and bearing and plunge of axis
- Synclinal warp axis in Bishop tuff
- Strike and dip of cleavage
  Showing direction and plunge of lineation resulting from intersection of beds and cleavage
- Strike of vertical cleavage
- Vertical lineation
- Horizontal lineation
- Strike and dip of primary foliation in granitic rocks
- Strike of vertical foliation in granitic rocks
- Horizontal foliation in granitic rocks
- Interpreted trends of foliation in granitic rocks
- Strike and dip of foliation in gneiss
- Strike of vertical foliation in gneiss
- Strike and dips of joints
- Strikes of vertical joints
- Lineaments in granitic rock
  Lines visible on aerial photographs; joints
- 4000 — Contours on base of Bishop tuff
  Contour interval 100 feet
- 250 — Borings for water, which intersected the base of the Bishop tuff
- 9000 — Contours on Coyote warp
  Extrapolated across deeply eroded areas. Contour interval 1000 feet
- 760 — Gravity contours showing complete Bouguer values plus 1000 milligals
  Contour interval 2 milligals
- Gravity station
- Approximate position of major fault defined by gravity

Positions of geological sections A–A′ through G–G′ (pl. 5), sections of fence diagram showing distribution of the Bishop tuff (fig. 64), and geophysical sections W–W′ through Z–Z′ (pl.11 and fig. 81) are shown

APPROXIMATE MEAN DECLINATION, 1964
TRUE NORTH
MAGNETIC NORTH
16½°

SCALE 1:62 500

1 ½ 0 1 2 3 4 5 MILES

1 5 0 1 2 3 4 5 KILOMETERS

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