



- EXPLANATION**
- Colluvium
 - Landslide
 - Mafic dike
 - Kennett formation
 - Porphyritic rhyolite with quartz phenocrysts more than 4 mm
 - Porphyritic rhyolite with quartz phenocrysts less than 4 mm
 - Nonporphyritic rhyolite, undifferentiated on section
 - Tuff
 - Volcanic breccia, includes coarse volcanic breccia, tuff breccia, and flow breccia. Undifferentiated on sections.
- ON MAP**
- Gosan derived from massive sulfide
 - Gosan derived from disseminated pyrite rock (but contained 10-75 percent pyrite)
 - Ore body projected to section
 - Hydrothermally altered rock, argillic alteration, silicification, and peak hematitic alteration
 - Quartz vein
 - Contact, showing dip (Dashed where approximately basinal)
 - Indefinite contact
 - Fault, showing dip (Dashed where approximately basinal, U, upstream side; D, downstream side)
 - Concealed fault
 - Probable fault
 - Vertical fault
 - Fault, showing relative movement
 - Strike and dip of beds
 - Strike of vertical beds
 - Strike and dip of foliation; queried where dip is doubtful
 - Strike of vertical foliation
 - Slope outline, projected
 - Adit
 - Caved adit
 - Workings (Dashed where projected to section)
- ON SECTIONS**
- Ore body
 - Caved ground
 - Dump
- ON MAP**
- Caved ground
 - Dump
- ON SECTIONS**
- Caved ground
 - Dump
- Note: Location of sections also shown on plate 14

Topographic base furnished by United States Mining Refining and Mining Co., with additions by A. R. Kinkel, Jr., and W. E. Hall

GEOLOGIC MAP AND SECTIONS OF THE MAMMOTH MINE, SHASTA COUNTY, CALIFORNIA

400 0 2000 Feet
Contour interval 20 feet and 50 feet as marked