



EXPLANATION

- SEDIMENTARY ROCKS**
- ALLUVIUM**
 - LIMESTONE AND SHALE--CARBONIFEROUS**
(limestones largely altered to garnet-spliate rock, series within mine mostly thin bedded)
- IGNEOUS ROCKS**
- QUARTZ-MICA DIORITE PORPHYRY**
Biotite-quartz diorite includes finer grained sills and dikes, most of which contain hornblende in place of biotite)
 - HORNBLLENDE PORPHYRY**
(white, felsitic, with small hornblende needles)
 - ANDESITIC VOLCANICS--CRETACEOUS ?**
 - BASALT**
(fine grained dark dikes, may be amesitic in part)

UNITED STATES DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY
 BUREAU OF MINES PROJECT 1419
TOPOGRAPHIC AND GEOLOGIC MAP
CHRISTMAS COPPER MINE
GILA COUNTY, ARIZONA

Scale $\frac{1}{2400}$
 0 50 100 200 400 600 Feet
 Contour interval 50 feet

Topography by E. E. Gould
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