GEOLOGIC MAP OF THE CHRISTMAS AREA, GILA COUNTY, ARIZONA

Topography by E. E. Gould and R. W. Swanson

Geology by R. W. Swanson

353102 O - 55 (In pocket)

EXPLANATION

- Stream deposits
- Alluvium
- Basalt — *Fine-grained basic dikes, may be andesitic in parts*
- Hornblende porphyry — *Light-colored, felsitic dikes and sills*
- Quartz-mica diorite — *Includes biotite-quartz diorite and finer-grained sills most of which contain hornblende in place of biotite*
- Andesitic volcanic rocks — *Tuffs, breccias, and flows*
- Limestone and shale — *Thin-bedded limestone with thin limy shale partings largely altered to lime silicate rock*

Upper Cretaceous or lower Tertiary

QUATERNARY

CRETACEOUS OR TERTIARY

PENNSYLVANIAN(?), CRETACEOUS(?), AND PERMIAN(?)

- Contact, dashed where approximately located
- Indefinite contacts, also boundaries of surficial deposits
- Concealed contact
- Fault, showing dip; dashed where approximately located. U, upthrown side; D, downthrown side
- Concealed fault
- Fault, location uncertain
- Strike and dip of beds
- Vertical shaft
- Caved shaft
- Portal of adit
- Cave or open pit

Section A-A' shown on plate 43.
Section B-B' shown on plate 40

Contour interval 50 feet
Datum is mean sea level

300' 0 900 Feet

TRUE NORTH
MAGNETIC NORTH
14°

Tailings dump
Office
Slag dump
Dump
NO 4 SHAFT
300 LEVEL
CHRISTMAS
FAULT
321A RAISE
HACKBERRY SHAFT
306A RAISE
NO 1 SHAFT
NO 3 SHAFT
NO 2 SHAFT
240A RAISE
CHRISTMAS SHAFT
400 LEVEL
OLD RED BIRD SHAFT
RED BIRD SHAFT
Reference line
A
A'
B
B'
4000 E
5000 E
6000 E
7000 E
8000 E
9000 E
10,000 E
9000 N
8000 N
7000 N
6000 N
5000 N