R29o
51-13

112°15'

TO PRESCOTT

TO CHERRY

TO MAYER

DEWEY

HUMBOLDT

IRON KING MINE

LONESOME VALLEY

AGUA FRIA RIVER

A.T. and S.F.R.R.

Lonesome Valley fault

34°30'

A A'

B B'

C C'

section along line A—A'

section along line B—B'

section along line C—C'

TRUE NORTH

MAGNETIC NORTH

14½°

GEOLOGY OF THE HUMBOLDT REGION, BIGBUG MINING DISTRICT, YAVAPAI COUNTY, ARIZONA

Base map modified from Mingus Mountain, Prescott, Mt. Union, and Mayer quadrangles

EXPLANATION

SEDIMENTARY AND VOLCANIC ROCKS

TQal — Includes river wash (Recent), valley fill (Pleistocene ?), and older gravels interbedded with Mingus Mountain basalt
Alluvium

Tm — Mingus Mountain basalt
Pliocene (?) or Pleistocene (?)

QUATERNARY and TERTIARY (?) or QUATERNARY (?)

TERTIARY (?) or QUATERNARY (?)

METAVOLCANIC ROCKS

YAVAPAI SERIES — PRE-CAMBRIAN

ihr — Metarhyolite flow
iha — Meta-andesite flow
Indian Hills metavolcanics

cr — Metarhyolite flow
Metarhyolite tuff
cat — Meta-andesite tuff
Chaparral Gulch metavolcanics

Spud Mountain metabreccia

ikat — Meta-andesite tuff
ikrt — Metarhyolite tuff and conglomerate
ika — Meta-andesite flows
Iron King meta-andesites

Green slate
Meta-andesite flow and tuff
qrt — Metarhyolite tuff
tgps — Purple slate
tmb **tgab** — Meta-andesite breccia; mb marble bed
Texas Gulch formation

INTRUSIVE IGNEOUS ROCKS

gr — Granite and alaskite
Granodiorite, hdp diorite border facies
Quartz diorite
cr-qd mixed rock, metarhyolite flow and quartz diorite
Diorite, quartz diorite, gabbro, and diabase
Metarhyolite
qp — Quartz porphyry

ar — Hydrothermally altered rocks
qv — Quartz and jasper veins, showing dip
sv — Sulfide-bearing veins, showing dip

Fault showing dip and downthrown side; dashed where uncertain
Strike and dip of beds
Strike of vertical beds
Strike and dip of overturned beds
Strike and dip of foliation and plunge of lineation
Strike of vertical foliation
Strike and dip of joints
Strike of vertical joints
Bearing and plunge of lineation
Plunge of minor fold
Contact, showing dip (Dashed where approximately located)
Tailings dump
Prospect pit or inactive mine

0 2000 4000 6000 8000 10000 FEET
Scale 1/24000

Note: The area north of the 34°30' parallel and west of the 112° 15' meridian was mapped by M. Krieger and W. Eckstein.