DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PLATE 1

Geologic Map of the Western Half of the Young Quadrangle, Northern Sierra Anchas, Gila County, Arizona

Geology by Mark Labrenz, 1987-1988

SCALE 1:24,000

.5 0 MILES

1000 0 1000 3000 5000 7000 FEET

.5 0 KILOMETER

CONTOUR INTERVAL 80 FEET

N MN 13.5°

AREA OF STUDY

INDEX MAP OF ARIZONA

AREA OF ENLARGEMENT PLATE 2

EXPLANATION

Lithologies:

- Qal Quaternary Alluvium
- Tc Tertiary Gravel

Middle Proterozoic — Apache Group
- D Diabase
- A Apache Group undivided
- DSu Dripping Springs Quartzite undivided
- P Pioneer Shale
- S Scanlan Conglomerate

Early Proterozoic — Alder Group
- Hr Haigler rhyolite

BOARD CABIN FORMATION
- BCbv basic volcanics
- BCc conglomerate
- BCw wacke, quartzite, arkose, and slate

HOUDON FORMATION
- Hu quartzite undivided

FLYING W FORMATION
- Wu Flying W Formation undivided
- Wp rhyolite containing pumice lapilli
- W rhyolite without pumice lapilli

BREADPAN FORMATION
- Bsu slates undivided
- Bps purple slates and wacke
- Bgs grey slates and wacke
- Bq quartzite
- Bc conglomerate (debris flow)
- Bgrs green slates and wacke

- Gr Young Granite
- zone of granite country rock mixing
- enclave area

VOLCANIC AND/OR INTRUSIVE UNITS
- Vb metabasalt
- Vt volcanogenic slate
- Vfc volcanogenic chloritic slate
- Im mafic intrusive
- Gh phenocrystic hypabyssal granite

Symbols:

- lithologic contact (known, approximate, inferred)
- contact from air photo
- fault trace (known, approximate, post Apache)
- boundary of mapping
- S1 foliation (slaty cleavage)
- L1 lineation (stretching lineation)
- F1 fold hingeline
- S2 foliation (crenulation cleavage)
- F2 fold hingeline
- sense of shear, U up, D down
- upright bedding
- vertical bedding
- overturned bedding
- youngning based on cross-bedding
- younging based on graded bedding
- overturned syncline
- overturned anticline
- overturned anticlinorium

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Sheet 1 of 2