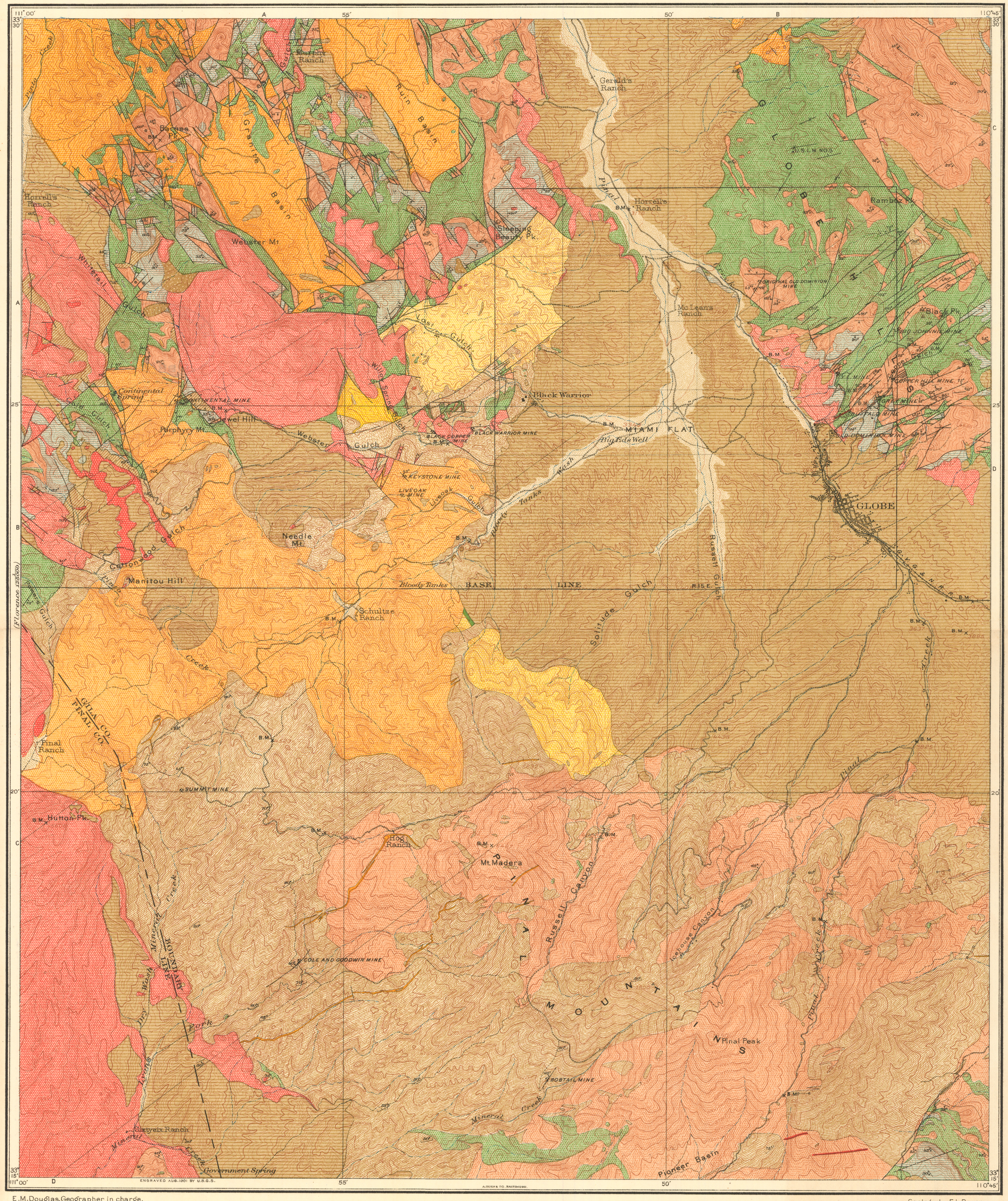


## LEGEND

**SURFICIAL ROCKS** — LATE PLEISTOCENE

**Alluvium**
*(Sands and gravels along present stream ways and in small valleys.)*

**Landslides**
*(Composed chiefly of blocks of dacite)*

**SEDIMENTARY ROCKS**

**Gila conglomerate** — EARLY PLEISTOCENE (?)
*(Alluviatile deposit of irregularly bedded conglomerate, breccia, grit, and tuffs with a probable maximum thickness of more than 1000 feet.)*

**Whitetail formation** — EOCENE (?)
*(Alluviatile deposit usually composed of rather angular fragments of diabase and limestone.)*

**Globe limestone** — DEVONIAN AND CARBONIFEROUS
*(Hard buff and gray limestones in beds ranging from 1 to 6 feet in thickness. Total maximum thickness over 800 feet.)*

**Apache group** — CAMBRIAN (?)
*(Chiefly quartzites with subordinate shales and conglomerates. Total maximum thickness about 800 feet.)*

**CRYSTALLINE METAMORPHIC ROCKS**

**Pinal schists** — PRE-CAMBRIAN
*(Muscovite- or sericite-schists, in part recognizable as altered grits with a little amphibolite-schist. Blue lines indicate general direction of schistose cleavage)*

**ERUPTIVE ROCKS**

**Basalt** — EARLY PLEISTOCENE (?)
*(Surface flow intercalated in Gila conglomerate and small intrusive masses.)*

**Dacite** — EOCENE (?)
*(Surface flow with some underlying tuff.)*

**Diorite-porphyry** — MESOZOIC (?)
*(Small sills and dikes, intrusive in Globe limestone, Apache group, Madera diorite and in some cases in diabase.)*

**Diabase**
*(Intrusive in Globe limestone, Apache group, Pinal schists, and in the pre-Cambrian granite rocks as thick sills and irregular masses)*

**Metadiabase** — PRE-CAMBRIAN
*(Intrusive mass in Pinal schists.)*

**Willow Spring granite**
*(True granite. Intrusive mass in Pinal schists.)*

**Lost Gulch monzonite**
*(Adamellite or quartz-monzonite. Intrusive mass in Pinal schists.)*

**Ruin granite**
*(Granitite or biotite-granite. Extensive batholithic mass underlying the northern part of the quadrangle)*

**Schultze granite**
*(Granitite or biotite-granite. Extensive batholithic mass intrusive in Pinal schists in west-central part of the quadrangle. With the Schultze granite are included dikes of granite-porphyry intruded in Pinal schists and Madera diorite at time of eruption of this granite.)*

**Solitude granite**
*(Granite and muscovite granite. Intrusive mass in Pinal schists.)*

**Madera diorite**
*(Quartz-mica-diorite. Extensive batholithic mass, intrusive in Pinal schists of southern portion of the quadrangle)*

KNOWN FAULTS, OCCASIONALLY ACCOMPANIED BY MINERALIZATION

PROBABLE FAULTS

FAULTS CONCEALED BY YOUNGER DEPOSITS

80° DIP AND STRIKE OF FAULTS

STRIKE OF VERTICAL FAULTS

15° DIP AND STRIKE OF STRATIFIED ROCKS

STRIKE OF VERTICAL BEDS

25° DIP AND STRIKE OF SCHISTOSE CLEAVAGE

STRIKE OF VERTICAL SCHISTS

**Sections**

A B C D

MINES

PROSPECTS

E. M. Douglas, Geographer in charge.
Triangulation by A. H. Thompson.
Topography by W. J. Lloyd.
Surveyed in 1900-1901.

TRUE NORTH
MAGNETIC NORTH
12¾°
APPROXIMATE MEAN DECLINATION 1900.

# GEOLOGICAL MAP OF THE GLOBE QUADRANGLE, ARIZONA

Scale $\frac{1}{62500}$

1 ½ 0 1 2 3 4 miles

1 ½ 0 1 2 3 4 5 kilometers

Contour interval 50 feet.
*Datum is mean sea level.*

Geology by F. L. Ransome, assisted by J. D. Irving.
Surveyed in 1901 and 1902.