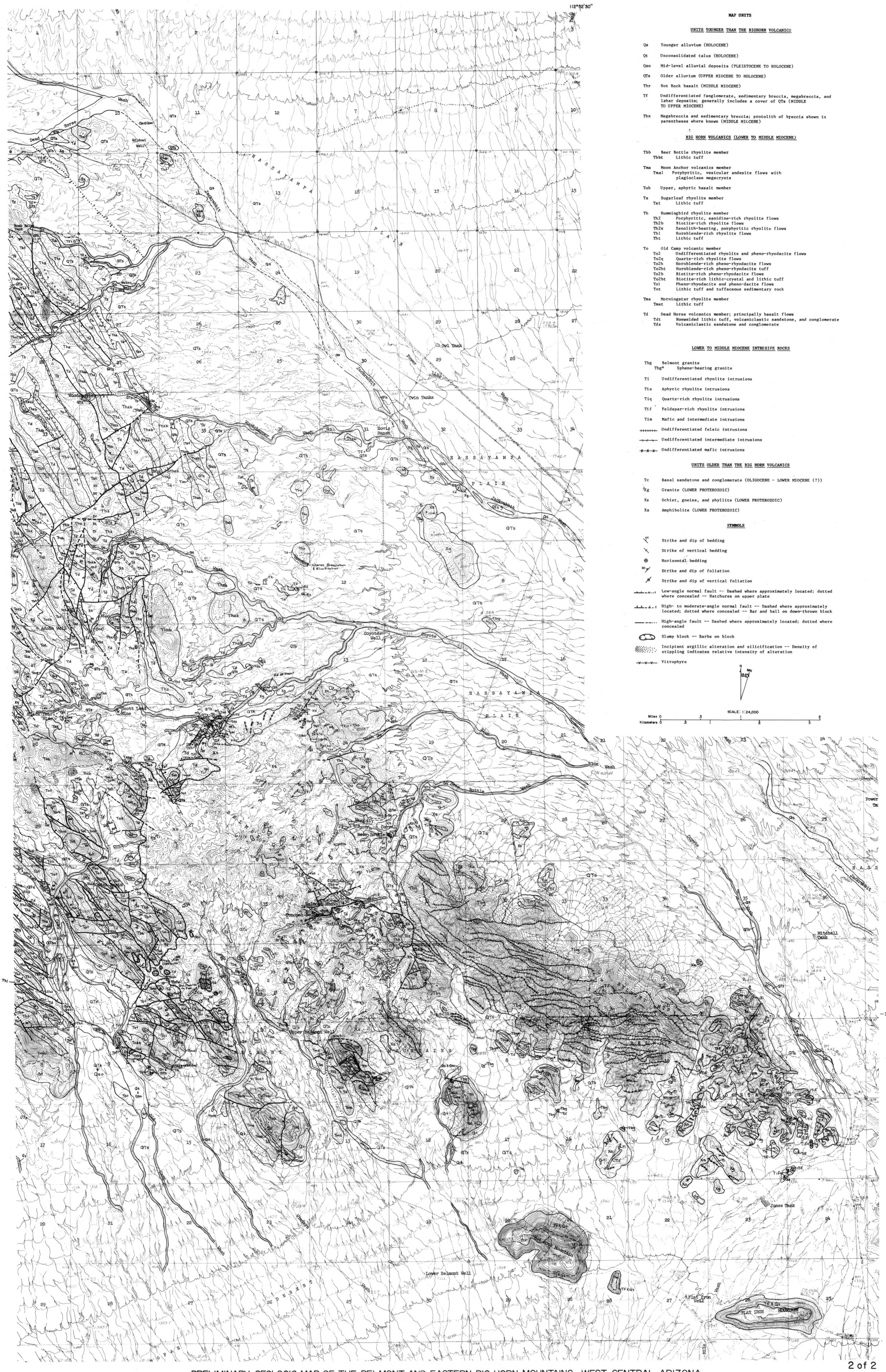

MAP UNITS

UNITS YOUNGER THAN THE BIGHORN VOLCANICS

Qs Younger alluvium (HOLOCENE)

Qt Unconsolidated talus (HOLOCENE)

Qso Mid-level alluvial deposits (PLEISTOCENE TO HOLOCENE)

QTs Older alluvium (UPPER MIOCENE TO HOLOCENE)

Thr Hot Rock basalt (MIDDLE MIOCENE)

Tf Undifferentiated fanglomerate, sedimentary breccia, megabreccia, and lahar deposits; generally includes a cover of QTs (MIDDLE TO UPPER MIOCENE)

Tbx Megabreccia and sedimentary breccia; protolith of breccia shown in parentheses where known (MIDDLE MIOCENE)

BIG HORN VOLCANICS (LOWER TO MIDDLE MIOCENE)

Tbb Beer Bottle rhyolite member
- Tbbt Lithic tuff

Tma Moon Anchor volcanics member
- Tmal Porphyritic, vesicular andesite flows with plagioclase megacrysts

Tub Upper, aphyric basalt member

Ts Sugarloaf rhyolite member
- Tst Lithic tuff

Th Hummingbird rhyolite member
- Th2 Porphyritic, sanidine-rich rhyolite flows
- Th2b Biotite-rich rhyolite flows
- Th2x Xenolith-bearing, porphyritic rhyolite flows
- Th1 Hornblende-rich rhyolite flows
- Tht Lithic tuff

To Old Camp volcanic member
- To2 Undifferentiated rhyolite and pheno-rhyodacite flows
- To2q Quartz-rich rhyolite flows
- To2h Hornblende-rich pheno-rhyodacite flows
- To2ht Hornblende-rich pheno-rhyodacite tuff
- To2b Biotite-rich pheno-rhyodacite flows
- To2bt Biotite-rich lithic-crystal and lithic tuff
- To1 Pheno-rhyodacite and pheno-dacite flows
- Tot Lithic tuff and tuffaceous sedimentary rock

Tms Morningstar rhyolite member
- Tmst Lithic tuff

Td Dead Horse volcanics member; principally basalt flows
- Tdt Nonwelded lithic tuff, volcaniclastic sandstone, and conglomerate
- Tds Volcaniclastic sandstone and conglomerate

LOWER TO MIDDLE MIOCENE INTRUSIVE ROCKS

Tbg Belmont granite
- Tbg* Sphene-bearing granite

Ti Undifferentiated rhyolite intrusions

Tia Aphyric rhyolite intrusions

Tiq Quartz-rich rhyolite intrusions

Tif Feldspar-rich rhyolite intrusions

Tim Mafic and intermediate intrusions

Undifferentiated felsic intrusions

Undifferentiated intermediate intrusions

Undifferentiated mafic intrusions

UNITS OLDER THAN THE BIG HORN VOLCANICS

Tc Basal sandstone and conglomerate (OLIGOCENE - LOWER MIOCENE (?))

Xg Granite (LOWER PROTEROZOIC)

Xs Schist, gneiss, and phyllite (LOWER PROTEROZOIC)

Xa Amphibolite (LOWER PROTEROZOIC)

SYMBOLS

Strike and dip of bedding

Strike of vertical bedding

Horizontal bedding

Strike and dip of foliation

Strike and dip of vertical foliation

Low-angle normal fault -- Dashed where approximately located; dotted where concealed -- Hatchures on upper plate

High- to moderate-angle normal fault -- Dashed where approximately located; dotted where concealed -- Bar and ball on down-thrown block

High-angle fault -- Dashed where approximately located; dotted where concealed

Slump block -- Barbs on block

Incipient argillic alteration and silicification -- Density of stippling indicates relative intensity of alteration

Vitrophyre

N MN 14.5°

SCALE 1:24,000

Miles 0 .5 1 2

Kilometers 0 .5 1 2 3

2 of 2

PRELIMINARY GEOLOGIC MAP OF THE BELMONT AND EASTERN BIG HORN MOUNTAINS, WEST-CENTRAL ARIZONA

by Stephen J. Reynolds, Richard C. Capps, Curtis P. Kortemeier, Elizabeth A. Scott, James A. Stimac, and George B. Allen 1985

Arizona Bureau of Geology and Mineral Technology Open-File Report 85-14

Base maps modified after U.S.G.S. Preliminary 7.5' Topographic Maps: Wickenburg 3 NW, NE, SE, and SW; Maricopa County, AZ, and Wickenburg 2 SW; Maricopa County, AZ