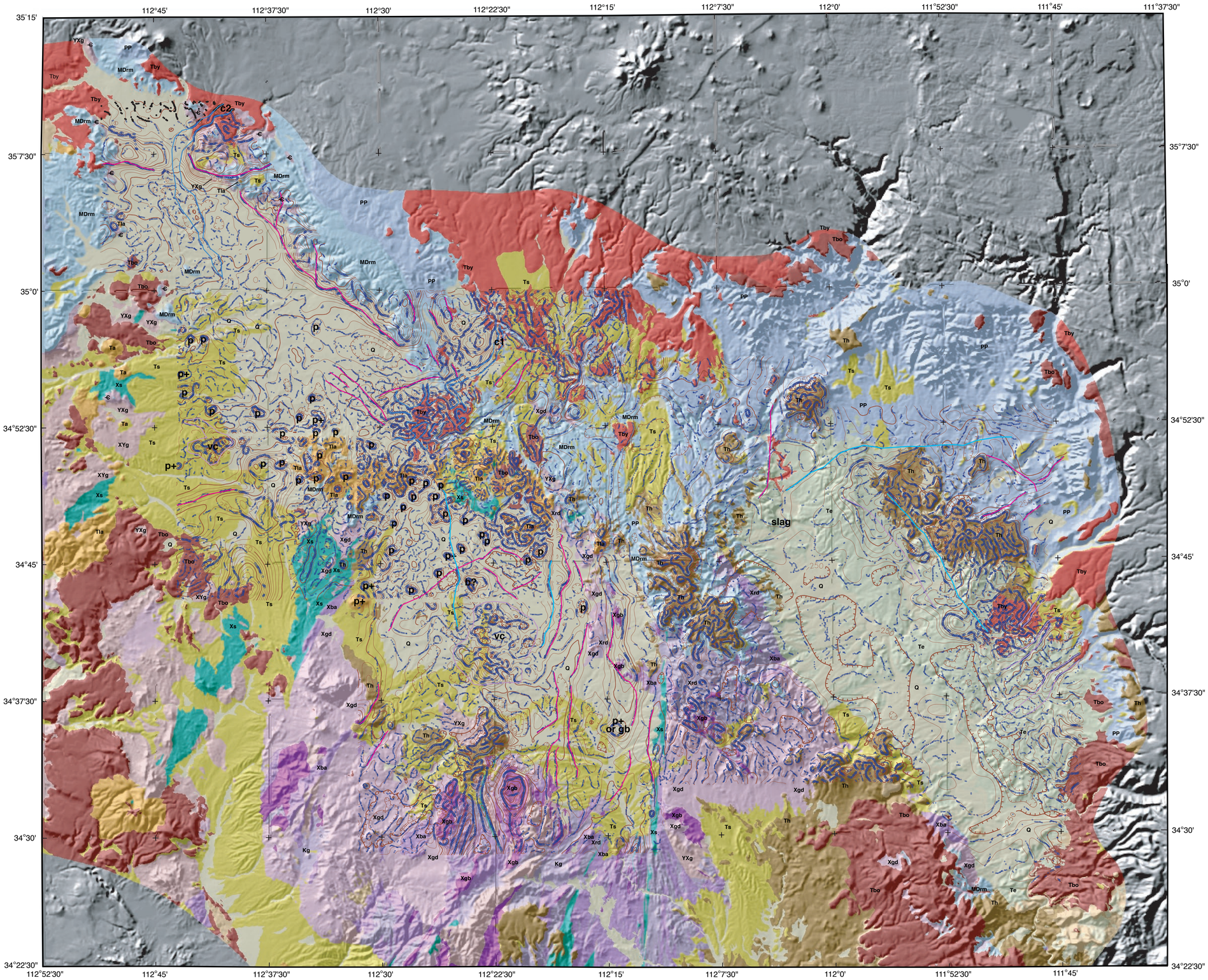
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

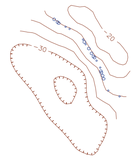
Prepared in cooperation with the
Arizona Department of Water Resources and Yavapai County, Arizona

SCIENTIFIC INVESTIGATIONS REPORT 2005-5278
PLATE 1



EXPLANATION

- Q — Quaternary deposits
- Te — Tertiary Verde Formation
- Tby — Tertiary younger volcanic (basalt) rocks 4-6 Ma
- Tbo — Tertiary older volcanic (basalt) rocks 7-10 Ma
- Ta — Andesite and dacite
- Ts — Tertiary sedimentary rocks (Oligocene? to Pliocene)
- Th — Miocene Volcanic rocks of the Hickey Formation
- Tla — Oligocene and Miocene lati-andesite
- Kg — Cretaceous plutonic rocks
- PP — Pennsylvanian, Permian, and Triassic sedimentary rocks
- MDrm — Mississippian and Devonian carbonate rocks
- C — Cambrian sedimentary rocks
- YXg — Proterozoic granite
- Xgd — Proterozoic granodiorite and tonalite
- Xgb — Proterozoic gabbro and ultramafic rocks
- Xba — Proterozoic metabasalt and meta-andesite
- Xrd — Proterozoic metarhyolite and metadacite
- Xs — Proterozoic metasedimentary rocks



Reduced-to-pole aeromagnetic anomaly contours. Coutour interval, 50 nT. Hachures indicate magnetic low. Contours were computer generated based on a 100-m grid. Dark blue circles are magnetization boundaries automatically calculated from grid. Size of circle reflects magnitude of magnetic potential gradient.

MAGNETIC BOUNDARIES

- Boundary with hydrologic significance
- Tertiary volcanic boundary
- Proterozoic boundary
- Boundary caused by magnetic topography
- Magnetic channel boundary (for example, c1, c2)

- p — Reversely polarized lati-andesite plug
- p+ — Normally polarized lati-andesite or trachyandesite
- b? — Normally polarized basalt
- vc — Volcanic center
- gb — Concealed Proterozoic gabbro

Topographic base from U.S. Geological Survey digital data, 1:24,000
Geologic base simplified from Ed DeWitt and others, unpub. data.

SCALE 1:200 000
0 1 2 3 4 5 MILES
0 1 2 3 4 5 KILOMETERS

Interpretive Map of Upper and Middle Verde River Watershed, Yavapai County, Arizona: Geology Overlaid on Shaded-Relief Topography with Magnetic Contours and Boundaries

By

V.E. Langenheim, Ed DeWitt, and Laurie Wirt

Langenheim, V. E., DeWitt, Ed, and Wirt, Laurie, 2005, Geophysical Framework Based on Analysis of Aeromagnetic and Gravity Data, Upper and Middle Verde River Watershed, Yavapai County, Arizona: U.S. Geological Survey Scientific Investigations Report 2005-5278