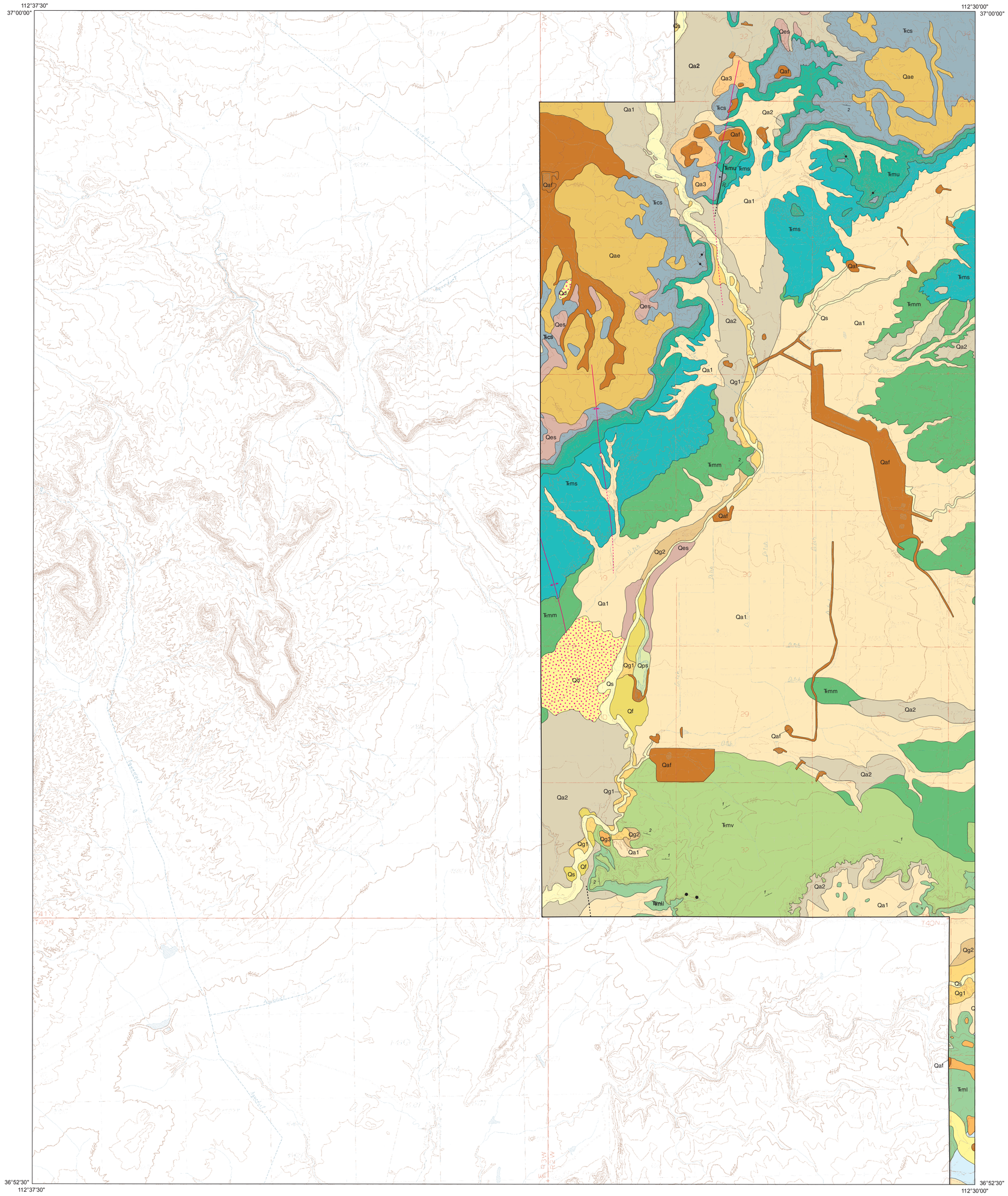
U.S. Department of the Interior
U.S. Geological Survey

Scientific Investigations Map 3035




## LIST OF MAP UNITS

SURFICIAL DEPOSITS

- Qaf — Artificial fill and quarries
- Qs — Stream-channel deposits
- Qf — Flood-plain deposits
- Qps — Ponded sediments
- Qd — Dune sand and sand sheet deposits
- Qes — Eolian sand sheet deposits
- Qae — Young mixed alluvium and eolian deposits
- Qv — Valley-fill deposits
- Qg1 — Young terrace-gravel deposits
- Qa1 — Young alluvial fan deposits
- Qg2 — Intermediate terrace-gravel deposits
- Qa2 — Intermediate alluvial fan deposits
- Qg3 — Old terrace-gravel deposits
- Qa3 — Old alluvial fan deposits

VOLCANIC ROCKS

SEDIMENTARY ROCKS

- Ꞧcs — Chinle Formation, Shinarump Member
- Ꞧmu — Moenkopi Formation, upper red member
- Ꞧms — Moenkopi Formation, Shnabkaib Member
- Ꞧmm — Moenkopi Formation, middle red member
- Ꞧmv — Moenkopi Formation, Virgin Limestone Member
- Ꞧml — Moenkopi Formation, lower red member
- Ꞧmt — Moenkopi Formation, Timpoweap Member
- Pkh — Kaibab Formation, Harrisburg Member

## EXPLANATION

- Contact certain
- Fault certain; number is estimated offset in feet
- Fault concealed
- Anticline; dotted where concealed; arrows where plunging
- Syncline; dotted where concealed; arrows where plunging
- Monocline; dotted where concealed
- Strike and dip of beds
- Implied bedding
- Strike of vertical and subvertical joints
- Collapse structure

12°
TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION, 2005

SCALE 1:24,000
1 0.5 0 1 Miles
1 0.5 0 1 Kilometers

Derived from USGS SIM 3035, 2008
Geologic Map of the Fredonia 30' x 60' Quadrangle, Mohave and Coconino Counties, Northern Arizona
by George H. Billingsley, Susan S. Priest, and Tracey J. Felger
Legend may include map units or features outside quadrangle boundary

# Fredonia