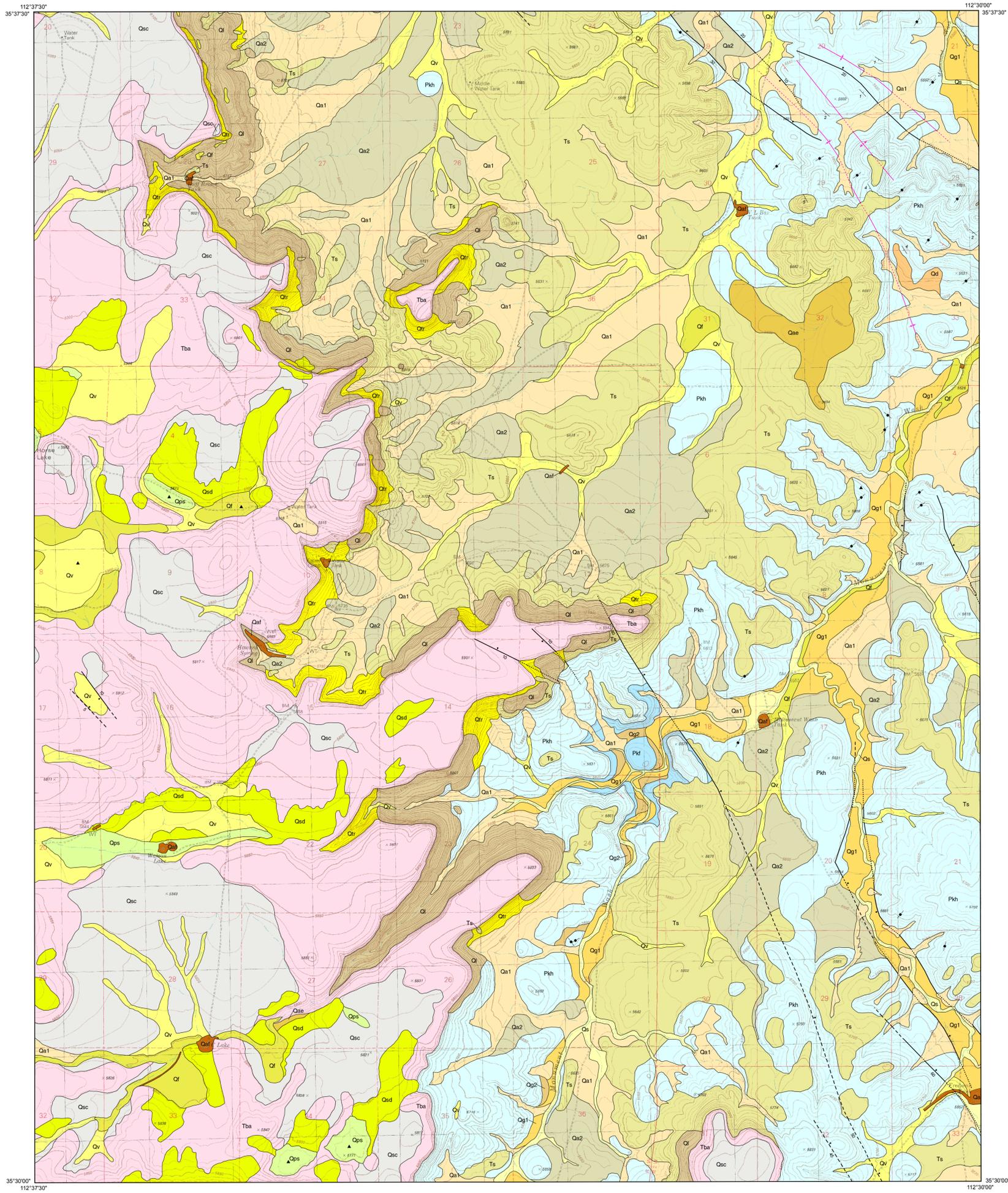




# GEOLOGIC MAP OF THE HOWARD SPRING QUADRANGLE



### LIST OF MAP UNITS

#### SURFICIAL DEPOSITS

- Qaf Artificial fill and quarries
- Qs Stream-channel deposits
- Qf Flood-plain deposits
- Qd Dune sand and sand sheet deposits
- Qg1 Young terrace-gravel deposits
- Qa1 Young alluvial fan deposits
- Qg2 Intermediate terrace-gravel deposits
- Qa2 Intermediate alluvial fan deposits
- Qps Ponded sediments
- Qsc Eolian and fluvial silt deposits
- Qae Young mixed alluvium and eolian deposits
- Qtr Talus and rock fall deposits
- Qi Landslide deposits
- Qsd Silt dune deposits
- Qv Valley-fill deposits

#### VOLCANIC ROCKS

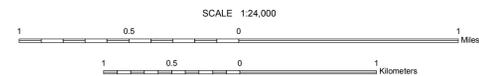
- Tba MFVF basalt and andesite flows

#### SEDIMENTARY ROCKS

- Ts Sedimentary rocks
- Pkh Kaibab Formation Harrisburg Member
- Pkf Kaibab Formation Fossil Mountain Member

#### EXPLANATION

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



Derived from USGS SIM-2895, 2005  
Geologic Map of the Valle 30' X 60' Quadrangle, Coconino County, Northern Arizona  
by George H. Billingsley, Tracey J. Felger, Susan S. Priest  
Legend may include map units or features outside quadrangle boundary