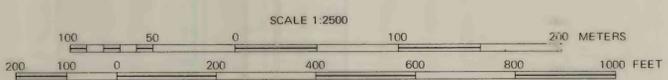




EXPLANATION

- Qu QUATERNARY COVER - Includes debris from mine workings
- UPPER TUFF
  - TUFF - Finely bedded gray argillite intercalated with carbonate and talcose, brown, massive to finely bedded tuff and minor volcanic wackes. Local zones of massive talc.
- UNCONFORMITY OR FAULT CONTACT
- UPPER AGGLOMERATE
  - UAB GRAY AGGLOMERATE - Subrounded fragments of white, red, and gray chert, andesite, siliceous tuff, pyrite-rich tuff, andesite to rhyodacite volcanic rock and chlorite and epidote-rich clots set in a gray siliceous and pyriteiferous groundmass. Local pink K-feldspar scattered indiscriminately through groundmass and fragments
- LOCAL UNCONFORMITY
- UBT CRYSTALLITIC TUFF TO AGGLOMERATE - Pale to dark green, with gray chert, brown to gray tuff, wispy chlorite, gray siliceous lapilli, locally abundant fragmental plagioclase and andesite to rhyodacite volcanic rock set in siliceous gray groundmass. Generally bedded, and locally graded. Intercalated fine grained massive green tuff. Pink K-feldspar is locally abundant as a partial to total replacement of the fragmental plagioclase, and to a lesser extent as scattered crystals through groundmass and all fragments
- METASOMATIZED LOWER TUFF
  - K-FELDSPATHIZED TUFFS AND SEDIMENTS - Mostly fine- to medium grained tuffs to volcanic wackes and sandstones with local zones of mafic lapilli. Indiscriminately distributed pink K-feldspar as replacement of fragmental plagioclase and as discrete crystals that commonly cut meta morphic grain boundaries. This is the metasomatized equivalent of the lower tuff described below
- LOWER TUFF
  - lt TUFFS AND SEDIMENTS - Fine-grained massive to finely bedded tuffs, lapilli tuffs, volcanic wackes, and sandstones
- LOWER AGGLOMERATE
  - Lau Upper Unit - Mafic agglomerate, mostly andesite and chloritic fragments set in gray siliceous groundmass, mafic lapilli tuff, plagioclase crystal tuff and massive cherty tuff. Local fragments of massive sulfide (?) and pyrite-rich tuff
  - Middle Unit - Mafic agglomerate with andesite, chloritic, red, gray and black massive tuff, and diorite fragments in chlorite and epidote groundmass. Intercalated dense massive green to brown chert
  - Lower Unit - Massive to slightly bedded andesite tuff and lapilli tuff with minor intercalated mafic agglomerate
- Major and minor quartz veins showing direction and amount of dip
- Andesite dikes and sills
- Contact
- Fault zone
- Local thrust faults
- MD 2 Diamond drill hole trace
- Strike and dip of beds
- 14 Vein system numbers
- Surface workings - Ancient and SAMS
- Spot elevations
- A-A' Line of cross-section (see figure 2 for cross-section)
- 930 Sample location
- 931 Sample location with analytical result greater than 1 gram/ton gold

Topographic base adapted from KLM photogrammetric compilation. Elevation data adjusted to Kingdom net



Mapped in 1976-77  
Geology north of 8000N  
modified after Dirom, 1947

GEOLOGY OF THE MAIN METALLIZED QUARTZ VEIN ZONE, MAHD ADH DHAHAB AREA,  
KINGDOM OF SAUDI ARABIA, SHOWING SAMPLE LOCATIONS IN SOUTHERN MINERALIZED ZONE

By  
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