

DESCRIPTION OF MAP UNITS

SURFICIAL DEPOSITS

- ALUVIUM (HoloCENE)**--Gravel, sand, and silt deposits in stream channels.
- COLLUVIUM (HoloCENE)**--Talus and slope wash below where bedrock geology is uncertain.
- FRANKFURT (HoloCENE)-Tuff**--1-2 m thick, freshwater deposits that cap terrace gravels and basaltic rocks adjacent to the Verde River.
- LANDSLIDE DEPOSITS (HoloCENE)**--Unconsolidated non-siltation and slide deposits of volcanic rocks, usually the Hackberry Mountain Dacite (db). The deposits occur primarily where the underlying rocks are dacitic tuffs or highly fractured basalt. Arrows show direction of movement.
- OLDER ALUVIUM (PLeistocene)**--Unconsolidated silt and sand deposits at the base of upper end of Towel Creek.
- OLDER LANDSLIDE DEPOSITS (PLeistocene)**--Identified rock-slope deposits of dacite and basalt that form the southern boundary of Hackberry Basin. The source of these deposits has moved away. Arrows show direction of probable motion.
- TERACE GRAVEL OF HACKBERRY BASIN (PLeistocene)**--Unconsolidated gravels that occur within Hackberry Basin and on outcrops of the Hackberry Basin Member of the Towel Creek Tuff (t₁). The gravels are only a few meters thick.
- TERACE GRAVELS OF THE VERDE RIVER (PLeistocene)**--Unconsolidated gravels that occur along the Verde River and its tributaries.
- Level 1**--15 to 30 m above level of the Verde River
- Level 2**--30 to 45 m above level of the Verde River
- Level 3**--45 m and higher above level of the Verde River
- Level 4**--60 m and higher above level of the Verde River
- TERACE GRAVELS OR FLOODS (PLeistocene)**--Unconsolidated gravels that occur along Towel Creek and Towel Valley.
- Level 1**--5 to 10 m above stream level. This level is probably correlative with level 2 of the Verde River (Og₂).
- Level 2**--10 m and higher above stream level.
- OLDER GRAVELS (PLeistocene AND/OR HoloCENE)**--Gravels and conglomerates occurring at elevations 100 to 1500 feet in the north-central portion of the mapped area. The deposits are up to 45 m thick.

QUATERNARY OR TERTIARY

DEVONIAN

CAMBRIAN

PRE-CAMBRIAN

SEMI-TERTIARY

MIocene



DESCRIPTION OF MAP UNITS (Continued)

- MEMBER 10**
Flow--A basalt flow stratigraphically bounded by Members 1 and 2 of the Towel Creek Tuff (t₁). The basalt contains 10-15 percent olivine phenocrysts and 2-3 percent pyroxene phenocrysts.
- MEMBER 9**
Flow--Medium gray, moderately resistant basalt flow that intrudes Member 10. The basalt contains 15 percent olivine phenocrysts and 3 percent pyroxene phenocrysts. It is 1.5 m thick and nearly vertical.
- MEMBER 8**
Flow--A large advanced clear cone that marks the vent of the flow of pyroxene basaltic tuff. The cone consists of red, poorly to well-bedded to chaotic basaltic tuff and some blue siltstone. It is 10-15 m thick and nearly vertical.
- MEMBER 7**
Flow--A basalt flow that intrudes the clear cone of Member 8. The flow contains 15 percent olivine phenocrysts and 3 percent pyroxene phenocrysts. It is 1.5 m thick and nearly vertical.
- MEMBER 6**
Flow--A basaltic flow that intrudes Member 7. The flow contains 15 percent olivine phenocrysts and 3 percent pyroxene phenocrysts. It is 1.5 m thick and nearly vertical.
- MEMBER 5**
Flow--A basaltic flow that intrudes Member 6. The flow contains 15 percent olivine phenocrysts and 3 percent pyroxene phenocrysts. It is 1.5 m thick and nearly vertical.
- MEMBER 4**
Flow--A basaltic flow that intrudes Member 5. The flow contains 15 percent olivine phenocrysts and 3 percent pyroxene phenocrysts. It is 1.5 m thick and nearly vertical.
- MEMBER 3**
Flow--A basaltic flow that intrudes Member 4. The flow contains 15 percent olivine phenocrysts and 3 percent pyroxene phenocrysts. It is 1.5 m thick and nearly vertical.
- MEMBER 2**
Flow--A basaltic flow that intrudes Member 3. The flow contains 15 percent olivine phenocrysts and 3 percent pyroxene phenocrysts. It is 1.5 m thick and nearly vertical.
- MEMBER 1**
Flow--A basaltic flow that intrudes Member 2. The flow contains 15 percent olivine phenocrysts and 3 percent pyroxene phenocrysts. It is 1.5 m thick and nearly vertical.
- MEMBER 100**
Flow--A basaltic flow that intrudes Member 1. The flow contains 15 percent olivine phenocrysts and 3 percent pyroxene phenocrysts. It is 1.5 m thick and nearly vertical.