



LIST OF MAP UNITS

SURFICIAL DEPOSITS			
	Artificial fill (Holocene)	 Basalt of the Shinarump Plateau (Miocene)	
	Stream-channel alluvium (Holocene)	 Intrusive rocks	
	Floodplain or ponded deposits (Holocene)	 Pyroclastic deposits	
	Young terrace-gravel deposits (Holocene)	 Basalt flows	
	Young alluvial fan deposits (Holocene)	 Intrusive rocks in Pigeon Canyon (Miocene)	
	Colluvial deposits (Holocene and Pleistocene)	SEDIMENTARY ROCKS	
	Valley-fill deposits (Holocene and Pleistocene)	 Moenkopi Formation (Lower Triassic)	
	Talus deposits (Holocene and Pleistocene)	 Shinarump Member (Lower Triassic)	
	Landslide deposits (Holocene and Pleistocene)	 Middle red member (Lower Triassic)	
	Young intermediate terrace-gravel deposits (Holocene and Pleistocene)	 Virgin Limestone Member (Lower Triassic)	
	Young intermediate alluvial fan deposits (Holocene and Pleistocene)	 Lower red member (Lower Triassic)	
	Old intermediate terrace-gravel deposits (Pleistocene)	 Timpanog Member (Lower Triassic)	
	Old intermediate alluvial fan deposits (Pleistocene)	 Kaibab Formation (Lower Permian)	
	Old terrace-gravel deposits (Pleistocene)	 Harrisburg Member (Lower Permian)	
	Old alluvial fan deposits (Pleistocene)	 Fort Stanton Member (Lower Permian)	
	Oldest alluvial fan deposits (Pleistocene)	 Torosovi Formation (Lower Permian)	
	Quaternary and Tertiary alluvium (Pliocene and Pleistocene)	 Woods Ranch Member (Lower Permian)	
			Brady Canyon Member (Lower Permian)
			Selkirk Member (Lower Permian)
			Hermit Formation (Lower Permian)
			Sisal Group (Lower Permian and Upper Permian)
			Empire Sandstone (Lower Permian)
			Pakoon Limestone (Lower Permian)
			Sisal Group, undivided (Upper Pennsylvanian)

Fault—Dashed where inferred or approximately located, dotted where concealed, bar and ball on downthrow side. Faults shows as bounding alluvium do not offset alluvium. Number is estimated separation displacement in meters.

Fold—*Syncline*—*Headward scarp* of landslide; *hachures* point in direction of slide.

Landslide—Showing trace of axial surface and direction of plunge, dotted where concealed.

Anticline

Syncline

Doubly plunging syncline

Monocline

Striker and dip of beds

Inclined—Measured in the field

Inclined—Interpreted from aerial photographs, dip amount not determined

Strike of vertical and subvertical joints

C

Collage Structure—Circular collapse structures characterized by strata dipping inward toward central point. On Karabog formation surface, (P.O. Box 16) may reflect collapse of deep-seated breccia pipe that originated in Redwall Limestone

Nikhole—Enclined depression or cave

Flow direction of basalt

Volcanic Vent

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