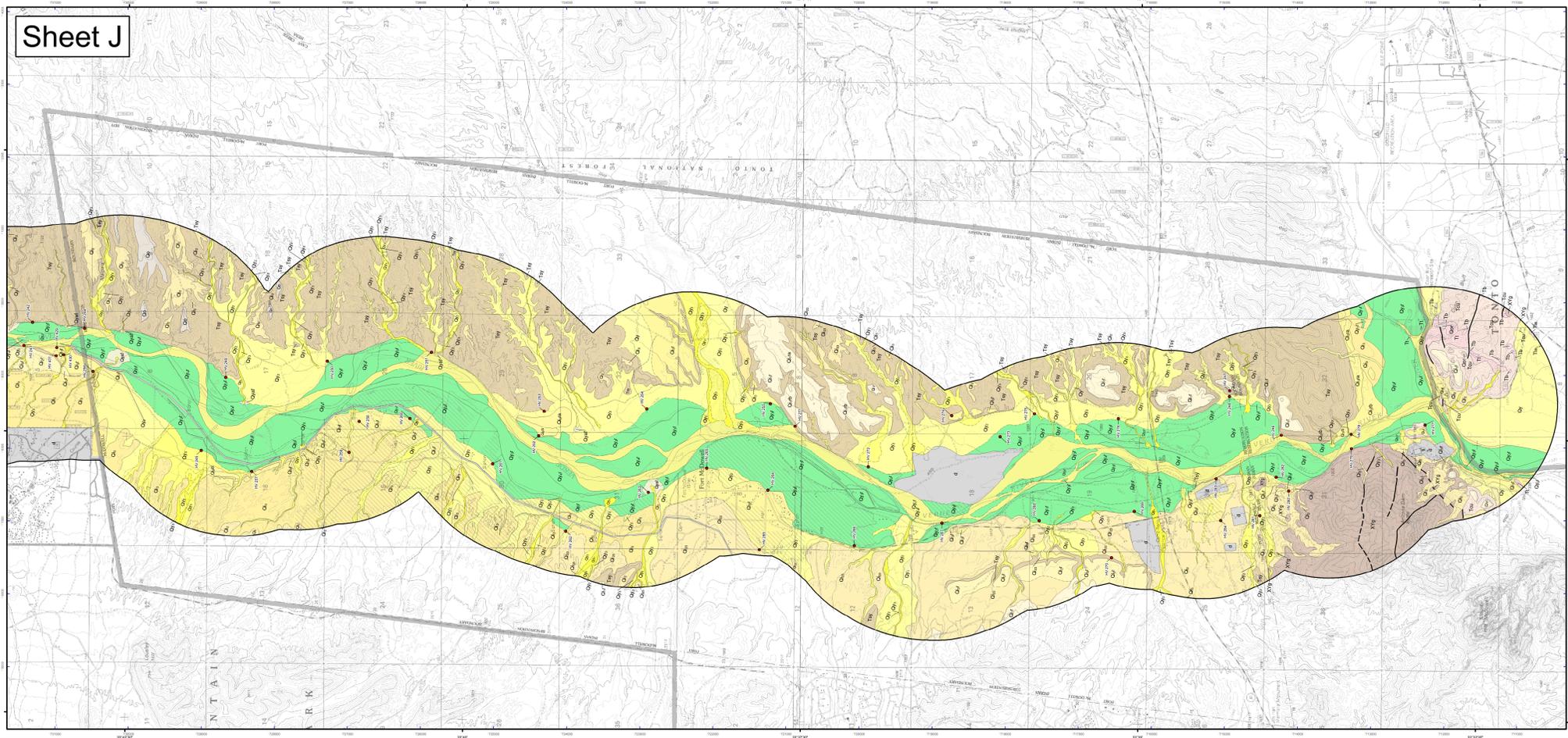


# Sheet J



## Map Unit Descriptions

<b>Other Units</b>	<b>Piedmont Alluvium</b>
<b>d</b> Flooded areas - historically or actively flooded fields, irrigated pastures, and other lightly disturbed ground	<b>Qm</b> Modern stream channel deposits - active channel deposits composed of very poorly sorted sand, pebbles, and cobbles with some boulders to moderately sorted sand and pebbles
<b>h</b> Disturbed ground - heavily disturbed ground due to agriculture, extensive excavation, mining activity, or construction of earth dams	<b>Qy</b> Late Holocene alluvium - unconsolidated, very poorly sorted silt to cobble low terrace and overflow terrace deposits
<b>Qr</b> River Alluvium	<b>Qym</b> Late Holocene alluvium, active fan deposits - active portions of young fan deposits exhibiting distributary drainage patterns
<b>Qra</b> Active river channel deposits - unconsolidated, very poorly sorted sandy to cobble beds in active river channels	<b>Qyl</b> Late Holocene alluvium - planar terrace deposits located along incised drainages, broad overland flood fan deposits overlapping onto Holocene river alluvium, and infrequently active tributary drainage deposits
<b>Qrc</b> Flood channel and low terrace deposits - unconsolidated sand, gravel and silt deposits on bars, low terraces and flood channels	<b>Qy1</b> Older Holocene alluvium - broad, low-lying, undulating fan deposits exhibiting widespread, diffuse drainage patterns
<b>Qrd</b> Historical river terrace deposits - unconsolidated sand, gravel and silt deposits on low terraces most below the abandoned early historical floodplain	<b>Qy2</b> Holocene alluvium - Holocene alluvium, undivided
<b>Qre</b> Late Holocene to historical river terrace deposits - silt, clay, sand and minor gravel terrace deposits slightly above the early historical floodplain	<b>Qy3</b> Late Pleistocene alluvial fan and terrace deposits - weakly consolidated sandy gravel deposits with moderate soil development
<b>Qrf</b> Late to early Holocene river terrace deposits - silt, clay, sand and minor gravel terrace deposits up to 25 m above the active river channel	<b>Qy4</b> Middle and late Pleistocene alluvium, undivided - middle to late Pleistocene alluvium
<b>Qrg</b> Late Pleistocene river terrace deposits, younger member - gravely, sandy river terrace deposits up to 25 m above the active river channel	<b>Qy5</b> Middle to late Pleistocene alluvial fan and terrace deposits - weakly consolidated sandy gravel deposits with strong soil development
<b>Qrh</b> Late Pleistocene river terrace deposits, older member - gravely, sandy river terrace deposits up to 25 m above the active river channel	<b>Qy6</b> Middle to late Pleistocene alluvium with strong soil development
<b>Qri</b> Middle to late Pleistocene river terrace deposits, younger member - high-standing, gravely, sandy river terrace deposits	<b>Qy7</b> Early Pleistocene alluvial fan deposits - high, moderately consolidated gravely deposits with strong soil development
<b>Qrj</b> Middle to late Pleistocene river terrace deposits, older member - high-standing, gravely, sandy river terrace deposits	<b>Conozis Basin Deposits</b>
<b>Qrk</b> Middle to late Pleistocene river terrace deposits, younger member - high-standing, gravely, sandy river terrace deposits	<b>Qz</b> Late Miocene to Pliocene deposits - moderately to strongly indurated conglomerate and sandstone basins fill deposits
<b>Qrl</b> Middle to late Pleistocene river terrace deposits, older member - high-standing, gravely, sandy river terrace deposits	<b>Qz1</b> Oligo-Miocene deposits - Moderately to strongly consolidated conglomerate and sandstone deposited in basins during and after late Tertiary faulting
<b>Qrm</b> Middle Pleistocene river terrace deposits - high-standing, gravely, sandy river terrace deposits	<b>Qz2</b> Conglomerate, breccia, and sandstone - Middle Tertiary interbedded red-oxidized, matrix supported breccia, and clay-supported conglomerate, sandstone, and terrace strata and breccias (Dobson, 1990)
<b>Qrn</b> Middle Pleistocene river terrace deposits - high-standing, gravely, sandy river terrace deposits	<b>Qz3</b> Conglomerate, breccia, and sandstone - Middle Tertiary interbedded red-oxidized, matrix supported breccia, and clay-supported conglomerate, sandstone, and terrace strata and breccias (Dobson, 1990)
<b>Qro</b> Early Pleistocene river terrace deposits, undivided - Well rounded indurated pebbles in cobble river gravels	<b>Qz4</b> Proterozoic granites, undivided - Fine to coarse grained granites, quartz monzonite, porphyry, mylonite ash flows, mylonites, and gneissophyre
<b>Qrp</b> Early Pleistocene river terrace deposits, undivided - Well rounded indurated pebbles in cobble river gravels	<b>Qz5</b> Proterozoic sedimentary, metasedimentary, and metavolcanic rocks, undivided - Quartzite, sandstone, and metavolcanic rocks

**Bedrock and surficial geologic mapping for areas outside the lateral limits of Holocene river alluvium was compiled from the following sources:**

Skotnicki, S.J., 1995, Geologic map of the Fountain Hills / Mount McDowell area, Maricopa County, Arizona: Arizona Geological Survey Open-File Report 95-10, 23 p., 1 sheet, scale 1:24,000.

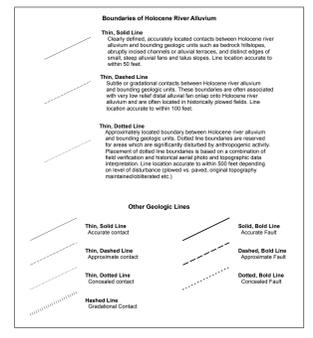
Skotnicki, S.J., 1996a, Geologic map of portions of the Fort McDowell and McDowell Peak quadrangles, Maricopa County, Arizona: Arizona Geological Survey Open-File Report 96-11, 20 p., 1 sheet, scale 1:24,000.

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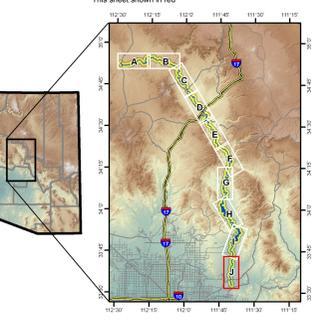
# SURFICIAL GEOLOGIC MAP OF THE VERDE RIVER CORRIDOR, CENTRAL ARIZONA

by  
**Cook, J.P., Bigio, E.R., Youberg, A., Fearhree, P.A., and House, P.K.**  
July 2010  
Arizona Geological Survey  
Digital Map DM-RM-2J  
version 1.1

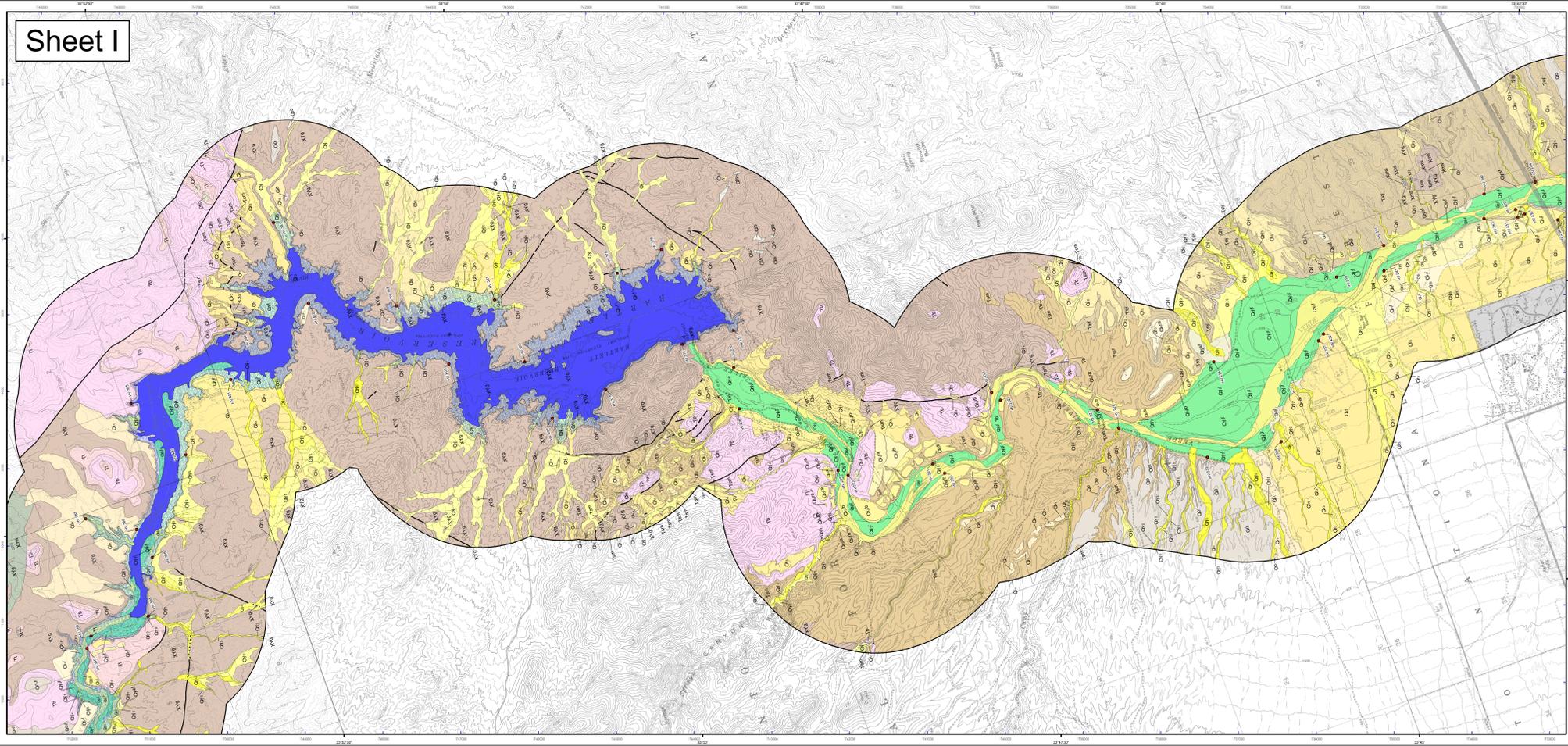
Funding for this project was provided by the Arizona Department of Water Resources  
USGS 24k quadrangle series topographic base maps, North American Datum of 1983. Projection and 1000-meter grid ticks (blue). Universal Transverse Mercator, zone 12.



## Location Map



# Sheet I



## Map Unit Descriptions

<b>Other Units</b>	<b>Piedmont Alluvium</b>
<b>W</b> Water - Underlying geology obscured by standing water (Pecks Lake, Horseshoe and Bartlett Reservoirs)	<b>Qm</b> Modern stream channel deposits - active channel deposits composed of very poorly sorted sand, pebbles, and cobbles with some boulders to moderately sorted sand and pebbles
<b>S</b> Submerged - underlying unit submerged due to seasonal inundation in Bartlett and Horseshoe Reservoirs	<b>Qy</b> Late Holocene alluvium - unconsolidated, very poorly sorted silt to cobble low terrace and overflow terrace deposits
<b>ML</b> Modern lake and marsh sediments - Underlying geology obscured by lake sediments (Pecks Lake, Horseshoe and Bartlett Reservoirs)	<b>Qym</b> Late Holocene alluvium, active fan deposits - active portions of young fan deposits exhibiting distributary drainage patterns
<b>d</b> Flooded areas - historically or actively flooded fields, irrigated pastures, and other lightly disturbed ground	<b>Qyl</b> Late Holocene alluvium - planar terrace deposits located along incised drainages, broad overland flood fan deposits overlapping onto Holocene river alluvium, and infrequently active tributary drainage deposits
<b>h</b> Disturbed ground - heavily disturbed ground due to agriculture, extensive excavation, mining activity, or construction of earth dams	<b>Qy1</b> Older Holocene alluvium - broad, low-lying, undulating fan deposits exhibiting widespread, diffuse drainage patterns
<b>Qr</b> River Alluvium	<b>Qy2</b> Holocene alluvium - Holocene alluvium, undivided
<b>Qra</b> Active river channel deposits - unconsolidated, very poorly sorted sandy to cobble beds in active river channels	<b>Qy3</b> Late Pleistocene alluvial fan and terrace deposits - weakly consolidated sandy gravel deposits with moderate soil development
<b>Qrc</b> Flood channel and low terrace deposits - unconsolidated sand, gravel and silt deposits on bars, low terraces and flood channels	<b>Qy4</b> Middle and late Pleistocene alluvium, undivided - middle to late Pleistocene alluvium
<b>Qrd</b> Historical river terrace deposits - unconsolidated sand, gravel and silt deposits on low terraces most below the abandoned early historical floodplain	<b>Qy5</b> Middle to late Pleistocene alluvial fan and terrace deposits - weakly consolidated sandy gravel deposits with strong soil development
<b>Qre</b> Late Holocene to historical river terrace deposits - silt, clay, sand and minor gravel terrace deposits slightly above the early historical floodplain	<b>Qy6</b> Middle to late Pleistocene alluvium with strong soil development
<b>Qrf</b> Late to early Holocene river terrace deposits - silt, clay, sand and minor gravel terrace deposits up to 25 m above the active river channel	<b>Qy7</b> Early Pleistocene alluvial fan deposits - high, moderately consolidated gravely deposits with strong soil development
<b>Qrg</b> Late Pleistocene river terrace deposits, younger member - gravely, sandy river terrace deposits up to 25 m above the active river channel	<b>Conozis Basin Deposits</b>
<b>Qrh</b> Late Pleistocene river terrace deposits, older member - gravely, sandy river terrace deposits up to 25 m above the active river channel	<b>Qz</b> Late Miocene to Pliocene deposits - moderately to strongly indurated conglomerate and sandstone basins fill deposits
<b>Qri</b> Middle to late Pleistocene river terrace deposits, younger member - high-standing, gravely, sandy river terrace deposits	<b>Qz1</b> Oligo-Miocene deposits - Moderately to strongly consolidated conglomerate and sandstone deposited in basins during and after late Tertiary faulting
<b>Qrj</b> Middle to late Pleistocene river terrace deposits, older member - high-standing, gravely, sandy river terrace deposits	<b>Qz2</b> Conglomerate, breccia, and sandstone - Middle Tertiary interbedded red-oxidized, matrix supported breccia, and clay-supported conglomerate, sandstone, and terrace strata and breccias (Dobson, 1990)
<b>Qrk</b> Middle to late Pleistocene river terrace deposits, younger member - high-standing, gravely, sandy river terrace deposits	<b>Qz3</b> Conglomerate, breccia, and sandstone - Middle Tertiary interbedded red-oxidized, matrix supported breccia, and clay-supported conglomerate, sandstone, and terrace strata and breccias (Dobson, 1990)
<b>Qrl</b> Middle to late Pleistocene river terrace deposits, older member - high-standing, gravely, sandy river terrace deposits	<b>Qz4</b> Proterozoic granites, undivided - Fine to coarse grained granites, quartz monzonite, porphyry, mylonite ash flows, mylonites, and gneissophyre
<b>Qrm</b> Middle Pleistocene river terrace deposits - high-standing, gravely, sandy river terrace deposits	<b>Qz5</b> Proterozoic sedimentary, metasedimentary, and metavolcanic rocks, undivided - Quartzite, sandstone, and metavolcanic rocks
<b>Qrn</b> Middle Pleistocene river terrace deposits - high-standing, gravely, sandy river terrace deposits	
<b>Qro</b> Early Pleistocene river terrace deposits, undivided - Very high old Verde River terrace deposits, level level	
<b>Qrp</b> Early Pleistocene river terrace deposits, undivided - Very high old Verde River terrace deposits, middle level	
<b>Qrq</b> Early Pleistocene river terrace deposits, undivided - Well rounded indurated pebbles in cobble river gravels	

**Bedrock and surficial geologic mapping for areas outside the lateral limits of Holocene river alluvium was compiled from the following sources:**

Skotnicki, S.J., 1996a, Geologic map of portions of the Fort McDowell and McDowell Peak quadrangles, Maricopa County, Arizona: Arizona Geological Survey Open-File Report 96-11, 20 p., 1 sheet, scale 1:24,000.

Skotnicki, S.J., 1996, Geologic map of the Bartlett Dam quadrangle and southern part of the Horseshoe Dam quadrangle, Maricopa County, Arizona: Arizona Geological Survey Open-File Report 96-22, 21 p., 1 sheet, scale 1:24,000.

Skotnicki, S.J., and Leighty, R.S., 1998, Geologic map of the Maverick Mountain 7.5' quadrangle, Maricopa County, Arizona: Arizona Geological Survey Open-File Report 98-14, 18 p., 1 sheet, scale 1:24,000.

Wuicks, C.T. and Conway, C.M., 1987, Geologic map of the Matcatzal Wilderness and contiguous Roadless Area, Gila, Maricopa, and Yavapai Counties, Arizona: U.S. Geological Survey Open-File Report 87-0664, 22 p., 1 sheet, scale 1:45,000.

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## Location Map

