

Table 2.--General description and water-bearing characteristics of geologic units in the Montezuma Creek-Aneth area

[Adapted from Cooley and others (1969), and Haynes and others (1972)]

System	Series	Group	Formation	Thickness (ft)	Lithology and water supply
Quaternary	Holocene			0- 30	Sand-and-gravel bars along the channel of the San Juan River; yields of shallow (depths of 20 to 61 feet) wells range from 66 to 250 gal/min.
			Unconformity		
Jurassic	Upper Jurassic	San Rafael Group	Morrison Formation	0- 550	Exposed throughout the area. Variegated red, green, and purple mudstone, greenish-gray bentonite, and tan to gray fluvial sandstone; probably a minor aquifer, but there are no records of well yields in the area.
			Bluff Sandstone	100- 200	Exposed west of the area. Light-brown, fine- to medium-grained eolian crossbedded sandstone; reported yields to wells range from 1 to 10 gal/min.
			Sunnerville Formation	60- 200	Not exposed in the area. Thin strata of dark-red and brown to gray siltstone and fine-grained fluvio-marine sandstone; not considered to be an aquifer in this area.
			Entrada Sandstone	100- 300	Not exposed in the area. White and orange-red massively crossbedded eolian sandstone and a red thin-bedded basal member of siltstone; reported yields to wells range from 30 to 40 gal/min.
			Unconformity		
Jurassic and Triassic(?)	Jurassic and Upper Triassic(?)		Navajo Sandstone	200- 300	Not exposed in the area. White, yellowish-gray, or reddish-orange eolian crossbedded sandstone; reported yields to wells range from about 32 to 157 gal/min.
Triassic (?)	Upper Triassic(?)	Glen Canyon Group	Kayenta Formation	0- 80	Not exposed in the area. Lavender-gray and red thin fluvial strata of siltstone and fine-grained sandstone; yields little or no water to wells.
			Wingate Sandstone	300- 400	Not exposed in the area. Reddish-orange and brownish-red eolian crossbedded sandstone; reported yields to wells are only in combination with Navajo Sandstone or Navajo and Entrada Sandstones; yields range from 100 to 125 gal/min.
Triassic	Upper Triassic		Chinle Formation	800-1,200	Not exposed in the area. Dark-red, gray, brown, and lavender siltstone with minor greenish-gray fluvial sandstones; not considered to be an aquifer in this area.
			Unconformity		
Triassic through Precambrian		Undifferentiated			Not exposed in the area. Deeper formations contain saline water or brine.