

Table 1.--Generalized geologic sections

System	Series	Group	Formation	Member	Thickness, in feet						Lithology and water-bearing characteristics			
					Deerlodge Park area	Dinosaur Quarry area	Cates of Ledore area	Monument Headquarters area	Jones Hole area	Echo Park area				
Quaternary	Holocene		Alluvium		0-28	0-50	0-48			0-60	0-58	Silt, sand, and gravel in the flood plains and bank terraces of the Green and Yampa Rivers; generally yields small amounts of water to shallow wells, but in a few places yields little or no water or water of poor chemical quality.		
Tertiary	Miocene and Pliocene(?)		Browns Park Formation				300+					Light-gray fine- to medium-grained friable crossbedded sandstone with conglomeratic lenses; yields water of useable quality to wells and springs.		
Cretaceous	Upper Cretaceous		Mancos Shale	Main body of Mancos Shale		5,000+		4,000+				Brownish-gray shale with thin discontinuous beds of siltstone and very fine sandstone; not known to yield water to wells or springs in this area.		
				Frontier Sandstone Member	5,000+	225		260			Yellowish-gray very-fine sandstone; yields water of poor chemical quality to a few scattered springs.			
				Mowry Shale Member		125		75			Gray-green shale with discontinuous thin bentonitic layers; not known to yield water in this area.			
	Lower Cretaceous		Dakota Sandstone				100		70				Gray-brown and yellow lignitic sandstone, friable with interbeds of black carbonaceous shale; yields water of poor chemical quality to scattered seeps.	
				Unnamed shale member					90				Gray-green and gray to red shale, with interbeds of gray limestone and medium-grained gray sandstone; not known to yield water in this area.	
				Buckhorn Conglomerate Member					80				Conglomeratic sandstone, grading upward from conglomerate at base to crossbedded sandstone at top; permeable, but not known to yield water in this area.	
Jurassic	Upper Jurassic		Morrison Formation		520	360		550				Gray-green, gray, and red shale, siltstone and mudstone with some interbeds of lenticular conglomeratic sandstone; permeable in part, yielding good water to wells from its sandstone units.		
				Unconformity										Gray and green siltstone, shale, limestone, and friable light-gray glauconitic sandstone, lower part is mainly sandstone; yields water of good quality to springs.
				Curtis Formation	105	260								Pale yellowish-orange, fine-grained, crossbedded sandstone; yields water of good quality to wells.
	Middle Jurassic		Carmel Formation						145				Red siltstone and shale with thin layers of gypsum; not known to yield water in this area.	
				Unconformity										
Lower Jurassic and Upper Triassic(?)			Glen Canyon Sandstone		800	700		650						
Triassic	Upper Triassic		Chinle Formation	Unnamed upper member	225	230				145			Red shale, marl, and siltstone with some thin beds of conglomeratic sandstone; not known to yield water in this area.	
				Cartra Member	25	50				35				Tan to yellow coarse sandstone and conglomerate; yields small quantities of good water to springs.
	Lower Triassic			Moenkopi Formation		570	800			970	475		Red gypsiferous shale, siltstone, and sandstone; not known to yield water in this area.	
Permian			Park City Formation		80	50				40	30±		Gray thin beds of limestone, sandstone, and some gray to red shale; yields small quantities of useable but chemically poor water to springs.	
Pennsylvanian	Upper Pennsylvanian		Weber Sandstone		850-900	1,000				1,000	900+		Tan to light-gray crossbedded fine-grained sandstone in massive tabular sets; yields water of good quality to wells and springs.	
	Lower and Middle Pennsylvanian		Morgan Formation							1,450	1,200		Gray limestone with interbedded gray and red sandstone; yields water of good quality to springs.	
Mississippian	Lower and Upper Mississippian		Undifferentiated strata of Mississippian age							875	540		Black shale in the thinner upper part and gray dolomitic limestone and shale in the lower part; yields water of useable quality to springs.	
Cambrian	Upper Cambrian		Lodore Formation							445	215		Light-gray to green glauconitic sandstone with thin interbeds of red and gray shale and siltstone; not known to yield water in this area.	
Precambrian	Upper Precambrian	Uinta Mountain Group	Unconformity				3,000+						Interbedded red fine-to-coarse quartzitic sandstone and red and green shale; yields small quantities of good water to a few scattered springs.	