

[Based in part on Hite and Lohman (1973, p. 9), Andrews and Hunt (1956), Sanborn (1958), Hintze and Stokes (1964), Hanshaw and Hill (1969), and Cater (1970)]

System	Series	Rock unit	Maximum thickness (meters)	Character	Hydrogeologic unit
Tertiary	Eocene	Wasatch Formation	1,200	Dark-red sandstones and shale	Tertiary and Cretaceous confining beds. Transmit little water.
		----- Unconformity -----			
Cretaceous	Upper Cretaceous	Mesaverde Group	2,000	Sandstone with thin coal seams and shale	Mesozoic sandstone aquifer. Transmits water through primary and secondary openings.
		Mancos Shale	600	Dark-gray fissile marine shale	
	Dakota Sandstone	60	Interbedded sandstone and conglomerate, carbonaceous shale, and impure coal		
	----- Unconformity -----				
Lower Cretaceous	Morrison Formation	Burro Canyon Formation	90	Sandstone and conglomerate, green and reddish-purple shale	
		Brushy Basin Member	230	Variegated bentonitic mudstone, siltstone, red sandstone and conglomerate, thin limestone beds	
Upper Jurassic	Morrison Formation	Salt Wash Member	130	Lenticular sandstones, mudstone, few thin limestone beds	
		Summerville Formation	30	Thin-bedded sandstone, sandy shale, and mudstone	
Jurassic	Middle Jurassic	San	30	Moab Member	White cross-bedded fine-grained sandstone
		Rafael		Entrada	Slick Rock Member
Lower Jurassic	Upper Triassic(?)	Group	45	Dewey Bridge Member	Red earthy sandstone and siltstone. Contorted bedding. Called Carmel in old reports
		----- Unconformity -----			
Triassic(?)	Upper Triassic(?)	Glen	150	Navajo Sandstone	Buff and gray cross-bedded fine-grained sandstone
		Canyon	90	Kayenta Formation	Lenticular channel sandstone, siltstone and mudstone
		Group	150	Wingate Sandstone	Fine-grained reddish-brown, thick-bedded, massive and cross-bedded cliff forming sandstone
Triassic	Upper Triassic	Chinle Formation	230	Reddish siltstone, sandstone, and mudstone; some conglomerate	Mesozoic and Upper Paleozoic confining beds. Generally transmit little water except for some sandstones in the lower three units, which are more transmissive.
	----- Unconformity -----				
Permian	Middle(?) and Lower Triassic	Moenkopi Formation	300	Brown shale, mudstone, arkosic sandstone and conglomerate. Thin beds of gypsum locally near base	
		----- Unconformity -----			
Permian	-----	Cutler Formation including the White Rim Sandstone Member	2,700	Red arkosic sandstone and conglomerate, some red sandy siltstone and mudstone	Evaporite confining beds. Probably do not transmit water.
		Rico Formation	175	Similar to Cutler but contains few beds of marine limestone	
Upper and Middle Pennsylvanian	Middle Pennsylvanian	Upper member	600	Fossiliferous gray limestone, some shale and lenticular sandstone	Upper Paleozoic confining beds. Transmit little water.
		----- Local unconformity -----			
Pennsylvanian	Middle Pennsylvanian	Hermosa Formation	4,000	Paradox Member	Mostly bedded salt; some gypsum, carbonaceous shale, and sandstone, and dolomite interbeds
		Lower member (equivalent to "Pinkerton Trail Formation" of local usage)	60		Interbedded limestone, dolomite, shale, and anhydrite
Lower Pennsylvanian	Lower Pennsylvanian	Molas Formation	60	Interbedded red siltstone, sandstone, limestone, and shale	Upper Paleozoic confining beds. Transmit little water.
		----- Unconformity -----			
Mississippian	Upper Devonian	Leadville Limestone equivalents	60	Dolomite and limestone	Lower Paleozoic aquifer. Transmits water mostly through secondary openings. Dolomites of Leadville Limestone equivalent are very permeable.
		Ouray Limestone		Limestone and shale	
Devonian	Upper Devonian	Elbert Formation	90	Dolomite and limestone	Lower Paleozoic and Precambrian confining beds. Transmit little water.
		McCracken Sandstone Member		Sandstone, limestone, and dolomite	
----- Unconformity -----					
Cambrian	Upper Cambrian	Lynch Dolomite	180	Dolomite	Lower Paleozoic and Precambrian confining beds. Transmit little water.
		Ignacio Quartzite equivalents	90	Sandstone, siltstone, and shale	
----- Unconformity -----					
Precambrian	-----	-----	-----	Granite and other igneous and metamorphic rocks	

Upper ground-water system

Lower ground-water system