Paradox Basin								
Period	Phase		Stratigraphic Unit	Hydrogeologic Unit				
Quaternary	Modern- Glaciation	Alluvium asso rivers	Alluvial Aquifers					
Neogene	Extension Transition	No strata						
Paleogene	Laramide	Laramide Sar form multiple	Multiple					
Cretaceous	Interior Seaway	and coastal e series of shal	formations of marine environments make up a e-dominated Colorado onal hydrogeologic units	Multiple				
Jurassic		Sedimentary	Multiple					
Triassic	Mesozoic Sandstones	continental e						
Permian		Colorado Pla hydrogeologi						
i Cillian	Ancestral Rocky Mountains	Cutler Forma	Cutler Aquifer					
		Rico Formation						
		Hermosa Formation	Upper Member					
Pennsylvanian			Paradox Member	Paradox unit				
			Lower Member	Molas confining				
			Molas Formation	unit				
Mississippian		Leadville-Ouray limestones		Mississipian- Devonian carbonate aquifer				
Devonian	Paleozoic Carbonates	Elbert Forma	Elbert confining unit					
		Ignacio Quar	Ignacio Aquifer					
Silurian								
Ordovician		No strata						
Cambrian								
Precambrian	Precambrian	Crystalline ro metamorphic region	Crystalline bedrock					
Table 11b-01-02-01. Paradox Basin stratigraphic chart.								

Paradox Basin									
Period	Phase		Stratigraphic Unit	Unit Thickness (ft)	Physical Characteristics	Hydrogeologic Unit	Hydrologic Characteristics		
Quaternary	Modern- Glaciation	Alluvium associated with present rivers							
Neogene	Extension Transition	No strata							
Paleogene	Laramide	Laramide San Juan Basin formations form multiple aquifers							
Cretaceous	Interior Seaway	Sedimentary formations of marine and coastal environments make up a series of shale-dominated Colorado Plateaus regional hydrogeologic units				Multiple			
Jurassic	Mesozoic	Sedimentary	dimentary formation of non-marine continental environments make up a series of sandstone and shale Colorado Plateaus gional hydrogeologic units			Multiple			
Triassic	Sandstones	-							
Permian		Cutler Forma	iation I		Fine grained sandstone interbedded with minor conglomerate and mudstone		Most water transmitted is through intervals of sadstone and conglomerate; some water is transmitted throughfractdures and solution channels		
Pennsylvanian		Rico Formation		<2,500 - >10,000	Hard gray limestone and massive sandstone interbedded with softer red sandstone and mudstone	Cutler Aquifer			
	Ancestral	ation	Upper Member	mber	Gray limestone interbedded with shale and lenticular sandstone				
	Rocky Mountains	rmosa	Paradox Member	<400 - >2,000	Halite interbedded with gypsum, shale, sandstone and dolomite	Paradox unit	Source of saline and brackish water, although the unit itself rarely transmits water; interbeds produce gas and oil; source of Trimble Hot Springs		
			Lower Member	<200 - >600	Interbedded limestone, dolomite, shale and anhydrite	Molas confining	Yields very little or no water		
			Molas Formation		Red siltsone sandstone, limestone and shale	unit			
Mississippian		Leadville-Ouray limestones 20-		20-500	Massive to thinly laminated, gray, buff and yellow limestone	Mississipian- Devonian carbonate aquifer	Transmits water through interconnected solution channels and fractures		
Devolitati	Paleozoic	Elbert Formation 0-200		0-200	Limestone, dolomite, shale, sandstone, and quartzite	Elbert confining unit	Ability to yield water depends on lithologic types, the presence of solution channels in carbonate rocks, and fracturing		
	Carbonates	lignacio Quartzite 📗 (1-200)		0-200	Sandstone, quartzite, and conglomerate with shale and carbonate interbeds	Ignacio Aquifer	Porosity and permeability depend on cementation and fracturing		
Silurian		No strata							
Ordovician									
Cambrian									
Precambrian	Precambrian	Crystalline rocks of igneous and metamorphic origin in mountainous region							
Table 11b-01-02-01. Paradox Basin stratigraphic chart, detailed. Colorado Geological Survey ON-010 Colorado Groundwater Atlas.									
Sources: Whitfield and others (1983); Geldon (2003a); Geldon (2003b); Raynolds and Hagadorn (2017)									