

**Comanche Peak Nuclear Power Plant, Units 3 & 4
COL Application
Part 2, FSAR**

Geologic Period	Series	Geologic Unit		Depositional Setting	
Quaternary	N/A	Quaternary Alluvium		Fluvial deposition and terrace deposits	
Early Cretaceous	COMANCHEAN	Fredericksburg Group	Edwards Formation	Passive margin onlap from transgressing Gulf of Mexico	
			Comanche Peak Formation		
			Walnut Formation		
		Trinity Group	Paluxy Formation		
			Glen Rose Formation		
			Twin Mountains Formation		
Pennsylvanian	MISSOURI	Strawn Group	Mineral Wells Formation	Filling of Fort Worth Basin with decreased subsidence	
	DES MOINES		Brazos River Formation		
			Mingus Formation		
			Grindstone Creek Formation		
			Lazy Bend Formation		
		ATOKA	Atoka Group	Atoka Sand	Foredeep basin subsidence followed by syn-orogenic clastic facies
	MORROWAN	Smithwick			
		Big Saline			
	Mississippian	CHESTERIAN - MERAMECIAN	Marble Falls Limestone		
			Barnett Shale		
OSAGEAN		Chappel Limestone			
Late Cambrian to Ordovician	CANADIAN	Viola and Simpson Formations		Laurentian Shelf	
		Ellenburger Group	Honeycut Formation		
			Gorman Formation		
			Tanyard Formation		
		Wilberns Formation	San Saba		
			Point Peak		
			Morgan Creek Limestone		
			Welge Sandstone		
		Riley Formation	Lion Mountain Sandstone		
			Cap Mountain Limestone		
			Hickory Sandstone		
Precambrian	undifferentiated Grenville crystalline Basement		Precambrian North American craton		

Figure 2.5.1-219 Site Area Stratigraphy