System	Series	Group/formation		Remarks	Tecronic Setting	Tectonic Association
Pleistocene		Terraces				Gulf of Mexico Basin Loading Subsidence
Pliocene						
Miocene		Goliad		Sedimentation in coatal and offshore Louisiana (not in site region)	Reactivation of sotuther Rocky Mountains, uplift of Colorado Plateau, eastward tilting of the Great Plains and renewed uplift of southern Appalachjians.	
		Fleming				
Oligocene		Frio		Deposition of sandstone, siltstones and shales advancing to deep Gulf of Mexico basin	Sedimentation recording calc-alkaline volcanism in Mexico ans southwester portions of the Gulf of Mexico catchment	
		Vicksburg Group				
Eocene		Jackson Group		Offlapping deltaic depositional sequences of sandstones, siltstones and shales prograding to contintental margin	Large amounts of sedimentary input in Late Peleocene to Early Eocene from early Larimide Orogeny	
		Claiborne Group				
		Wilcox Group				
Paleocene		Midway Group				Gulf of Mexico Thermal Subsidence
Late Cretaceous	Gulf Series	Navarro Group		Increasing amounts of terrigenous input derived from western sources	Probable initial influences of Larimide Orogeny	
		Taylor Group				
		Austin Group				
		Eagle Ford Group		Shelf carbonate and terigenous clastic sequences affected by cyclic sea-level fluxuations; terrigenous material provided by periodic uplift of crustal blocks	Return to tectonically stable conditions - maximum transgression with connection to Pacific by "Western Interior Seqway".	
		Woodbine Group				
	Comanche Series	Washita Group	Buda			
			Del Rio	Widespread unconformity at base		
Early Cretaceous			Georgetown	Transgressive - regressive sequences of carbonate and terrigenous clastic sediments	Continental and marine deposition with tectonically stable conditions and continued subsidence	
		Frederick-sburg Group	Kiamichi			
			Edwards Formation			
			Comanche Peak Formation			
			Walnut Formation			
		Trinity Group	Paluxy Formation			
			Glen Rose Formation			
			Travis Peak/Twin Mountains Formation			
Late Jurassic	Cotton Valley Group			Thick sequence of upward coarsing terrigenous clastics	Trangression maximum with clastic input from prograding delta systems. Development of unconformity at top.	
	Haynesville Formation and equilivents/members			Terrigenous clastics, carbonates and evaporites	Widespread trangression due to thermal relaxation of the crust	
	Smackover Formation			Carbonate and calcareous shales		
	Norphiet Formation			Basal coarse clastic facies		
Jurassic Upper- Middle	Werner Anhydrite - Louann Salt			Widespread development shallow bodies of hypersaline water periodically replinished from Pacific Ocean resulting in evaporite deposits primarily of either anhydrite or halite	Beginning of thermal relaxation of the crust following rifting and crustal thinning	Gulf of Mexico Formation
Late Triassic to mid-Early Jurasic	Eagle Mills Formation			Deposition of non-marine clastics and basaltic volcanics in isoloate basins	Initiation of Gulf of Mexico formation with rifting of Pangea with deposition of rift facies sediments and volcanics.	
Permian	WOLFCAMP	Cisco Group		Deposition in waning phases of Ouachita orgeny and sucessor basins	Syn- Post orogenic Ouachita deposition	Ouachita Orogenic Phase
Pennsylvanian	VIRGIL					
	MISSOURI	Canyon Group				
		Strawn Group		Shallow water clastic deposition with decreased paleoslopes		
	DES MOINES				Syn-orogenic Ouachita clastic wedge	
	ATOKA	Atoka Group		Deltaic deposition in foreland basins		
	MORROWAN	Marble Falls and Comyn Formations		Shallow water carbonate deposited over and along flanks of crustal arches	Deposition in basin and in shallow water associated with crustal arching front of foredeep and westerly advancing synorogenic deltas	
Mississippian	CHESTERIAN - MERAMECIAN	Barnet Formation		Deposition of shales and some carbonate into "starved basin"		
	OSAGEN	Chapple Formation				
Cambrian - Ordovician	CANADIAN	Viola and Simpson Formations and equilavents		Carbonate dominated stable platform sequence; minor amounts of Upper Ordovician, Silurian, Devonian and Lower Missippian preserved in karst at top of Ellenburger.	Laurentian shelf	Laurentian Platform Basement - Cover
		Ellenburger Group				
		Wilberns and Riley Formations				
Pre-Cambrian	N/A	Wachita Mountains Igneous Province		Rift related bimodal plutonic and volcanic suite, early mafic phase with late silicic phase	Magmatic series in core of the Southern Oklahoma Aulacogen marks initial rifting of Rodinia	
		Llano Series		Middle Proterozoic (1232 - 1301 Ma) metaigneous and metasedimentary terrane intruded by post-kinematic plutons (1116-1070 Ma).	Crystalline Grenville basement	

Figure 2.5.1-203 Regional Stratigraphy