STRATIGRAPHIC NOMENCLATURE CHART

G.S. Austin, J.M. Barker, P.W. Bauer, A.L. Bowsher,
R.M. Colpitts Jr., S.G. Lucas, S.M. Cather, J.W. Hawley,
F.E. Kottlowski, B.S. Kues, V.T. McLemore, C.T. Smith, and D.F. Toomey

Era	Period	Epoch or Age (Series in Permian Basin)	Southern Sacramento Mountains (Grapevine Canyon)	Northern Sacramento Mountains (Alamogordo-Cloudcroft)	Sierra Blanca Basin (Ruidoso-Carrizozo)	Pecos Slope (East of Mesozoic Outcrops, below the 7,500 ft contour, and west of the Pecos River)
CENOZOIC	QUATERNARY	HOLOCENE	Alluvian and spring deposits	Alluvian and spring deposits	Basalt; Eolian deposits; Alluvial deposits; Glacial deposits	Spring playa lake deposits; Eolian deposits; Alluvial deposits
		PLEISTOCENE		Periglacial deposits		
	TERTIARY	PLIOCENE	Santa Fe Gp (western slope)	Santa Fe Gp (western slope)	Older alluvium; Santa Fe Gp (western slope); Caprock Ogallala Fm	Older alluvium; Caprock Ogallala Fm
		MIOCENE				
		OLIGOCENE			Dikes; Sierra Blanca volcanic and intrusive complex; [Sanders Canyon Fm]	Lincoln Co Porphyry Belt
		EOCENE				
		PALEOCENE			Cub Mountain Fm	
MESOZOIC	CRETACEOUS	LATE		Dakota Gp	Ash Canyon Mbr; Crevasse Canyon Fm; Mesaverde Gp; Niobrara Fm; Gallup Ss; D-Cross Tongue, Mancos Sh; Tres Hermanos Fm; Fite Ranch Ss; Carthage Mbr; Atarque Ss; Mancos Sh, lower; Rio Salado Fm; Dakota Gp; Romeroville Fm; Pajarito Fm; Mesa Rica Ss	
		EARLY				
	JURASSIC				Morrison Fm	
	TRIASSIC	LATE			Chinle Formation [San Pedro Arroyo Fm]; Santa Rosa Fm	
		MIDDLE			Moenkopi Fm, Anton Chico Mbr	
		EARLY				

Match Line

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PALEOZOIC	PERMIAN	GUADALUPIAN	San Andres Fm	San Andres Fm	Grayburg Fm (Bernal of Kelly 1971); San Andres Fm; Hondo tongue	W Grayburg Fm E; San Andres Fm
		LEONARDIAN	Glorieta Ss; Yeso Fm	Glorieta Ss; Yeso Fm	Glorieta Ss; Yeso Fm	"Glorieta"; Yeso Fm
		WOLFCAMPIAN	S Pendejo Tongue of Hueco Fm; Abo Fm N	W Abo Fm E; Laborcita Fm	Abo Fm; Bursum Fm	S Abo Fm N; Hueco Ls
	PENNSYLVANIAN	VIRGILIAN (CISCO)		bioherms Holder Fm; Beeman Fm	Pennsylvanian Sediments	
		MISSOURIAN (CANYON)				
		DESMOINESIAN (STRAWN)	Bug Scuffle Ls; Gobbler Fm	Gobbler Fm; Bug Scuffle Ls		Gobbler Fm
		ATOKAN				
		MORROWAN				
	MISSISSIPPIAN	CHESTERIAN	Helms Fm			Helms Fm
		MERAMECIAN	Rancheria Fm			Rancheria Fm
		OSAGIAN	Lake Valley Fm, Alamogordo Mbr	Lake Valley Fm: Doña Ana Mbr; Arcente Mbr; Tierra Blanca Mbr; Nunn Mbr; Alamogordo Mbr; Andrecito Mbr; bioherms		Lake Valley Fm: Tierra Blanca Mbr; Nunn Mbr; Alamogordo Mbr; Andrecito Mbr
		KINDERHOOKIAN	Caballero Fm	Caballero Fm		Caballero Fm
	DEVONIAN	FRASNIAN	Sly Gap Fm	Sly Gap Fm		Sly Gap Fm
		GIVETIAN	Oñate Fm	Oñate Fm		Oñate Fm
	SILURIAN	EARLY	Fusselman Dol	Fusselman Dol		Fusselman Dol
	ORDOVICIAN	LATE TO MIDDLE	Valmont Fm (Cutter Fm); Montoya Fm	Valmont Fm (Cutter Fm); Montoya Fm		Montoya Fm
		EARLY	El Paso Fm; Bliss Ss	El Paso Fm; Bliss Ss		El Paso Fm; Bliss Ss
	CAMBRIAN					Black shale, green shale, and arkosic sandstone "Elrathia", Middle Cambrian
PRECAMBRIAN	PROTEROZOIC		Sandstone and quartz-rich argillites, altered and probably slightly metamorphosed. Cut by altered sills or dikes of diorite. Probable late Proterozoic age. Unconformably overlain by Bliss Ss.	Diorite to monzonite, quartzite, and granite south and east of Bent. Age unknown. Unconformably overlain by Paleozoic sandstone. (Possible subsurface ultramafic body- see Bowsher, this volume)	Granite and mafic igneous rocks, subsurface only.	Syenite, quartz syenite, alkali granite, gabbro at Pajarito Mountain dated at 1150 Ma. Unconformably overlain by Abo Fm. From subsurface: eastern terrain of granite granodiorite, granitic gneiss and minor schist and amphibolite; western terrain dominantly of metasedimentary and mafic metavolcanic rocks.

[ ]= units defined in this guidebook.