UPPER-PENNSYLVANIAN STRATIGRAPHIC GUIDE TO OKLAHOMA GEOLOGICAL UNITS
DATUM: DESMOINSIAN-MISSOURIAN BOUNDARY
PLATE 4

SERIES	GROUP	OUTCROP					SUBSURFACE				
		Taff (1901)	Morgan (1922)	Oakes (1953)	Krumme (1981)	Heckel (1993) & Campbell (1997)	Tanner (1954)	Krumme (1981)	Campbell (1997)	Boyd (2008)	Bacon (2012)
MISSOURIAN	SKIATOOK						Hill Top Belle City Nellie Bly				
					DeNay Seminole	Coffeyville	Coffeyville	Coffeyville	Layton	Layton	Coffeyville
			DeNay	DeNay-Checkerboard	Checkerboard	Checkerboard	DeNay-Checkerboard	Checkerboard	Checkerboard	Checkerboard	Checkerboard
		?									
		Seminole	Seminole	Seminole	Holdenville	Seminole	Seminole	Cleveland Nowata	Seminole	Upper Cleveland Nuyaka Creek Lower Cleveland	Seminole/ "True Cleveland"
		?							? ?		
DESMOINESIAN	MARMATON				Wewoka	Holdenville	Holdenville		Holdenville: Upper Cleveland Nuyaka Creek Lower Cleveland		Holdenville: Nuyaka Creek "Marmaton sands"
						Lenepah			Lenepah		
						Nowata			"Wayside"		
						Oologah	Wewoka	Oologah	Big Lime/ "Weiser"	Wewoka Big Lime	Wewoka
						Labette		Labette	Peru	Peru	
						Fort Scott		Oswego	Oswego/ "Wheeler"	Oswego/ Wheeler	
	CABANISS				Wetumka	Senora*	Wetumka				Wetumka
					Calvin		Calvin	Prue		Prue/ Lower Calvin	Calvin
					Senora		Senora	Verdigris		Verdigris	
								Skinner		Upper Skinner Senora Middle Skinner	
									Prue		
										Lower Skinner	
								Pink		Pink	

Notes:

*denotes Campbell (1997) only.

-Tanner (1954) does not recognize the Cabaniss-Marmaton boundary.

-Boyd (2008) selection is from Region 2, labeled "Cherokee Platform," and places the Cleveland zones above the Desmoinesian-Missourian boundary.

by Brent Battle
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