

TERTIARY	Paleocene		Fort Union Formation	SB	Note: In areas marginal to the main study area, sequence boundaries are unconformities. In the central study area, in lowstand basins, correlative conformities are lateral to the unconformities at several horizons.	
UPPER CRETACEOUS	Maastrichtian	Montana Group	Hell Creek Formation			
			Fox Hills Sandstone			
	Campanian		Bearpaw Shale	TSE		
			Judith River Formation			
			Claggett Shale	TSE		
			Eagle Sandstone/Gammon Shale			Includes Telegraph Creek Formation at base of Eagle Sandstone
	Santonian		Colorado Group	Niobrara Formation		
	Coniacian					
	Turonian			Carlile Shale		SB
				Greenhorn Formation		At Bowdoin dome there is a local unconformity at the base of the Greenhorn
Cenomanian	Mosby Sandstone Member			Equivalent to Phillips sandstone of subsurface usage		
	Belle Fourche Shale	SB				
	Mowry Shale			Considered to extend to the top of the Muddy Sandstone in some reports		
LOWER CRETACEOUS	Albian	Shell Creek Shale		TSE		
		Muddy Sandstone		SB	Includes Viking Formation, Bow Island Sandstone, Newcastle Sandstone, and Cyprian Sandstone Member of the Thermopolis Shale	
		Skull Creek Shale				
		Basal silt unit of Skull Creek Shale		Commonly called Dakota silt by drillers		
		Fall River Sandstone	TSE	Equivalent to First Cat Creek sandstone; also called Dakota sand		
		Aptian	Kootenai Formation	SB	Includes Second and Third Cat Creek sandstones	
JURASSIC	Kimmeridgian		Morrison Formation		Probably eroded from Bowdoin dome; Swift Formation may be top Jurassic formation there	

Figure 2. Stratigraphic names and unconformities used in this report. Compiled from Rice (1976a), Porter and others (1993, 1997), Dyman and others (1995), Kauffman and Caldwell (1993), and Gries and others (1990). SB = sequence boundary; TSE = transgressive surface of erosion.