

AGE	ERA	PERIOD	EPOCH	GEOLOGIC FORMATION		
PRESENT	CENOZOIC	QUATERNARY	HOLOCENE	STRATIGRAPHIC COLUMN OF FORMATIONS OCCURRING AT OR BELOW THE SURFACE NEAR BOWDOIN NWR		
65.5 million years ago			TERTIARY			PLIOCENE
		MIOCENE				
		OLIGOCENE				
		EOCENE				
	PALEOCENE					
145 mya	MESOZOIC	CRETACEOUS	UPPER	GROUND SURFACE AT BOWDOIN		
				CLAGGET SHALE	PIERRE SHALE	
				EAGLE		
				NIOBRARA SHALE		
				CARLILE SHALE		
			GREENHORN FORMATION			
			LOWER	BELLE FOURCHE SHALE	COLORADO GROUP	
				MOWRY SHALE		
				MUDDY-NEWCASTLE SANDSTONE		
				SKULL CREEK SHALE		
		BASAL COLORADO S.S., FALL RIVER S.S.				
		199 mya	JURASSIC	UPPER	MORRISON FORMATION	FUSON SHALE LAKOTA S.S.
					SWIFT FORMATION	
					RIERDON FORMATION	
				MIDDLE	PIPER FORMATION	
LOWER	NESSON FORMATION					
251 mya	TRIASSIC	UPPER	DISCONFORMITY			
		MIDDLE				
		LOWER	SPEARFISH FORMATION			
290 mya	PERMIAN	UPPER	DISCONFORMITY	PINE SALT		
		LOWER		MINNEKAHTA LS OPECHE FM		
	PENNSYLVANIAN	UPPER		MINNELUSA FORMATION		
		MIDDLE				
		LOWER				
		LOWER				
354 mya	MISSISSIPPIAN	UPPER	HEATH FM	BIG SNOWY GROUP		
			OTTER FORMATION			
			KIBBEY FORMATION			
		LOWER	CHARLES FORMATION	MADISON GROUP		
			MISSION CANYON LIMESTONE			
			LODGEPOLE LIMESTONE			
	DEVONIAN	UPPER	BAKKEN FORMATION	BIG HORN GROUP		
			THREE FORKS FM			
			BIRD BEAR NISKU FORMATION			
			DUPEROW FORMATION			
417 mya	SILURIAN	MIDDLE	INTERLAKE FORMATION	BIG HORN GROUP		
		LOWER	DISCONFORMITY			
		UPPER	STONY MOUNTAIN FORMATION			
		MIDDLE	DISCONFORMITY			
		LOWER	RED RIVER FM			
		WINNIPEG FORMATION				
443 mya	ORDOVICIAN	UPPER	DEADWOOD FORMATION	DISCONFORMITY		
		MIDDLE	DISCONFORMITY			
		LOWER	DISCONFORMITY			
490 mya	CAMBRIAN	UPPER	DISCONFORMITY	DISCONFORMITY		
		MIDDLE	DISCONFORMITY			
		LOWER	DISCONFORMITY			
543 mya	PRECAMBRIAN		W X Y & Z	GRANITIC BASEMENT ROCKS		

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