

AGE Millions of years before present	ERA	PERIOD	EPOCH	FORMATION	MEMBER	MAX. THICK (m)	BASIC LITHOLOGY			
50	CENOZOIC	QUATERNARY	RECENT				TOP SOIL AND DUNE SANDS.			
			PLEISTOCENE	GLACIAL DRIFT		140	CLAY, SAND, GRAVEL, BOULDERS AND PEAT.			
		TERTIARY	PLIOCENE							
			MIOCENE							
			OLIGOCENE							
65		PALEOCENE	TURTLE MOUNTAIN	PEACE GARDEN GOODLANDS	120	SHALE, CLAY, SAND, LIGNITE BEDS. LOCATED ONLY IN TURTLE MOUNTAIN.				
100	MESOZOIC	CRETACEOUS	LATE CRETACEOUS	BOISSEVAIN		30	SAND AND SANDSTONE, GREENISH-GREY. LOCATED ONLY IN TURTLE MOUNTAIN.			
				PIERRE SHALE	COULTER		340	SHALES, GREY, NON-CALCAREOUS, LOCAL IRONSTONE, BENTONITE NEAR BASE, GAS SHOW.		
					ODANAH					
					MILLWOOD					
							GAMMON FERRUGINOUS			● SHALE, DARK GREY, CALCAREOUS, NON-CALCAREOUS, BENTONITIC BANDS.
				CARLILE	BOYNE	75	● SHALE, GREY SPECKLED, CALCAREOUS, BENTONITIC, SLIGHTLY PETROLIFEROUS.			
					MORDEN	55	● SHALE, DARK GREY, NON-CALCAREOUS, RARE IRONSTONE CONCRETIONS, LOCAL SAND AND SILT.			
				FAVEL	ASSINIBOINE	40	● SHALE, GREY WITH HEAVY CALCAREOUS SPECKS, LIMESTONE BANDS AND BENTONITE.			
					KELD					
				ASHVILLE	BELLE FOURCHE	115	● SHALE, DARK GREY, NON-CALCAREOUS, FINE-GRAINED QUARTZ SANDSTONE OR SAND "ZONE".			
		WESTGATE								
					NEWCASTLE					
				EARLY CRETACEOUS	SKULL CREEK					
		150		JURASSIC	LATE JURASSIC	SUCCESS	S2	23	WEATHERED RED SHALE, SPHAEROSIDERITE CONCRETIONS, SANDY, KAOLINITIC. BANDED, GREEN BENTONITIC SHALE AND CALCAREOUS, GLAUCONITIC SANDSTONE.	
			WASKADA				200	* BANDS OF SANDY LIMESTONE, VARI-COLOURED SHALE AND SANDSTONE. OIL PRODUCING		
	MELITA	UPPER LOWER	45							
	RESTON		45		LIMESTONE, BUFF AND SHALES, GREY.					
200		MIDDLE JURASSIC	AMARANTH	UPPER: EVAPORITE	45	ANHYDRITE AND/OR GYPSUM, WHITE AND BANDED DOLOMITE AND SHALE.				
250		TRIASSIC	MID TO LATE TRIASSIC	LOWER: RED BEDS	40	* SHALE, RED TO SILTSTONE, DOLOMITIC. OIL PRODUCING				
300		PERMIAN		ST. MARTIN COMPLEX		300	CARBONATE BRECCIA AND TRACHYANDESITE (CRYPTO-EXPLOSION STRUCTURE).			
350		PENNSYLVANIAN								
400	PALEOZOIC	MISSISSIPPIAN		MADISON GROUP	CHARLES	DANDO EVAP.	20	MASSIVE ANHYDRITE AND DOLOMITE.		
					MISSION CANYON	MC-3	MC-3b	120	* LIMESTONE, LIGHT BUFF, OOLITIC, FOSSILIFEROUS, FRAGMENTAL, CHERTY, BANDS OF SHALE AND ANHYDRITE. OIL PRODUCING	
							MC-3a			
							MC-2			
					LODGEPOLE		MC-1			
						FLOSSIE LAKE		185	* LIMESTONE AND ARGILLACEOUS LIMESTONE, LIGHT BROWN AND REDDISH MOTTLED, SHALEY ZONES, OOLITIC, CRINOIDAL AND CHERTY. OIL PRODUCING	
		WHITWATER LAKE								
		VIRDEN								
			SCALLION	ROUTLEDGE						
		BAKKEN	UPPER	20	* TWO BLACK SHALE ZONES SEPARATED BY SILTSTONE. OIL PRODUCING					
			MIDDLE							
			LOWER							
		DEVONIAN				THREE FORKS		45	* SILTSTONE AND SHALE, RED, DOLOMITIC. OIL PRODUCING	
						BIRDBEAR		40	● LIMESTONE AND DOLOMITE, YELLOW-GREY, FOSSILIFEROUS, POROUS, SOME ANHYDRITE.	
						DUPEROW		170	● LIMESTONE AND DOLOMITE, ARGILLACEOUS AND ANHYDRITIC IN PLACES.	
SOURIS RIVER (FIRST RED)						120	● CYCLICAL SHALE, LIMESTONE, DOLOMITE AND ANHYDRITE.			
DAWSON BAY (SECOND RED)						65	● LIMESTONE AND DOLOMITE, ANHYDRITIC. LOCAL RED AND GREEN SHALE.			
WINNIPEGOSIS	PRAIRIE EVAP.					120	HALITE, POTASH, ANHYDRITE AND DOLOMITE INTERBEDDED.			
	UPPER (REEF)					75	● DOLOMITE, LIGHT YELLOWISH-BROWN, REEFOID.			
ELM POINT	LOWER (PLATFORM)					12	LIMESTONE, FOSSILIFEROUS, HIGH-CALCIUM.			
ASHERN		12	DOLOMITE AND SHALE, BRICK RED TO VARIGATED GREEN.							
SILURIAN		INTERLAKE GROUP		135	● DOLOMITE, YELLOWISH-ORANGE TO GREYISH-YELLOW FOSSILIFEROUS, SILTY ZONES.					
ORDOVICIAN				UPPER		20	DOLOMITE, GREYISH-YELLOW, BEDDED.			
				LOWER	WILLIAMS					
				GUNTON		25	DOLOMITE, YELLOWISH-GREY, SHALY.			
				PENITENTIARY		20	● DOLOMITE, DUSKY-YELLOW, FOSSILIFEROUS.			
				GUNN			● SHALE, RED-GREEN, FOSSILIFEROUS LIMESTONE INTERBEDS.			
RED RIVER	FORT GARRY SELKIRK CAT HEAD DOG HEAD	170	● DOLOMITIC LIMESTONE, MOTTLED AND MOTTLED DOLOMITE.							
WINNIPEG	UPPER SHALE	60	SHALE, GREEN, WAXY, AND INTERBEDDED SANDSTONE.							
LOWER SANDSTONE			● SAND AND SANDSTONE, QUARTZOSE.							
500		CAMBRIAN		DEADWOOD		60	SAND, BLACK TO GREEN-GREY, WAXY, GLAUCONITIC SILTSTONE AND SHALE, GREEN-GREY TO BLACK. LOCATED ONLY IN EXTREME SOUTHWEST CORNER OF MANITOBA.			
550										
		PRECAMBRIAN					ACID AND BASIC CRYSTALLINES AND METAMORPHICS.			

* productive intervals

● documented oil & gas shows

Manitoba geologic column, showing productive intervals and documented oil and gas shows.