

AGE Millions of years before present	ERA	PERIOD	EPOCH	FORMATION	MEMBER	MAX. THICK (m)	BASIC LITHOLOGY		
	CENOZOIC	QUATERNARY	RECENT				TOP SOIL AND DUNE SANDS.		
			PLEISTOCENE	GLACIAL DRIFT		140	CLAY, SAND, GRAVEL, BOULDERS AND PEAT.		
50	CENOZOIC	TERTIARY	PLIOCENE						
			MIOCENE						
			OLIGOCENE						
			EOCENE						
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				
				CARLILE	PEMBINA		75	SHALE, DARK GREY, CALCAREOUS, NON-CALCAREOUS, BENTONITIC BANDS.	
					BOYNE				
			MORDEN						
			FAVEL	ASSINIBOINE		40	SHALE, GREY SPECKLED, CALCAREOUS, BENTONITIC, SLIGHTLY PETROLIFEROUS.		
				KELD					
				BELLE FOURCHE					
			EARLY CRETACEOUS	ASHVILLE	WESTGATE NEWCASTLE SKULL CREEK	115	SHALE, DARK GREY, NON-CALCAREOUS, FINE-GRAINED QUARTZ SANDSTONE OR SAND "ZONE".		
				SWAN RIVER		75	SANDSTONE AND SAND, FINE-GRAINED WITH SILTS AND GREY, NON-CALCAREOUS CLAYS, PYRITIC, GLAUCONITIC.		
150	JURASSIC	LATE JURASSIC	SUCCESS	S2	23	WEATHERED RED SHALE, SPHAEROSIDERITE CONCRETIONS, SANDY, KAOLINITIC.			
			WASKADA		200	BANDED, GREEN BENTONITIC SHALE AND CALCAREOUS, GLAUCONITIC SANDSTONE.			
			MELITA	UPPER LOWER			*	BANDS OF SANDY LIMESTONE, VARI-COLOURED SHALE AND SANDSTONE. OIL PRODUCING	
			RESTON		45	LIMESTONE, BUFF AND SHALES, GREY.			
200	JURASSIC	MIDDLE JURASSIC	AMARANTH	UPPER: EVAPORITE	45	ANHYDRITE AND/OR GYPSUM, WHITE AND BANDED DOLOMITE AND SHALE.			
			TRIASSIC	MID TO LATE TRIASSIC	LOWER: RED BEDS	40	* SHALE, RED TO SILTSTONE, DOLOMITIC. OIL PRODUCING		
250	PERMIAN		ST. MARTIN COMPLEX		300	CARBONATE BRECCIA AND TRACHYANDESITE (CRYPTO-EXPLOSION STRUCTURE).			
300	PENNSYLVANIAN								
350	PALEOZOIC	MISSISSIPPIAN	MADISON GROUP	CHARLES	DANDO EVAP.	20	MASSIVE ANHYDRITE AND DOLOMITE.		
				MISSION CANYON	MC-3	MC-3b MC-3a	120	* LIMESTONE, LIGHT BUFF, OOLITIC, FOSSILIFEROUS, FRAGMENTAL, CHERTY, BANDS OF SHALE AND ANHYDRITE. OIL PRODUCING	
					MC-2				
					MC-1				
					FLOSSIE LAKE WHITewater LAKE VIRDEN				185
				BAKKEN	UPPER		20	* TWO BLACK SHALE ZONES SEPARATED BY SILTSTONE. OIL PRODUCING	
					MIDDLE				
					LOWER				
				DEVONIAN	TORQUAY	RSWILLEY	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.					
400	SILURIAN		INTERLAKE GROUP		135	● DOLOMITE, YELLOWISH-ORANGE TO GREYISH-YELLOW FOSSILIFEROUS, SILTY ZONES.			
450	ORDOVICIAN		STONEWALL	UPPER		20	DOLOMITE, GREYISH-YELLOW, BEDDED.		
				LOWER	WILLIAMS				
			STONY MOUNTAIN	GUNTON		25	DOLOMITE, YELLOWISH-GREY, SHALY.		
				PENITENTIARY					
			RED RIVER	GUNN		20	● DOLOMITE, DUSKY-YELLOW, FOSSILIFEROUS.		
WINNIPEG	FORT GARRY		170	● SHALE, RED-GREEN, FOSSILIFEROUS LIMESTONE INTERBEDS.					
	SELKIRK								
500	CAMBRIAN		DEADWOOD	CAT HEAD		60	● DOLOMITIC LIMESTONE, MOTTLED AND MOTTLED DOLOMITE.		
				DOG HEAD					
550				UPPER SHALE		60	● SHALE, GREEN, WAXY, AND INTERBEDDED SANDSTONE.		
				LOWER SANDSTONE		60	● SAND AND SANDSTONE, QUARTZOSE.		
	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.