

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						
50		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				
						PEMBINA			● SHALE, DARK GREY, CALCAREOUS, NON-CALCAREOUS, BENTONITIC BANDS.
						GAMMON FERRUGINOUS			● SHALE, GREY SPECKLED, CALCAREOUS, BENTONITIC, SLIGHTLY PETROLIFEROUS.
						BOYNE		75	● SHALE, DARK GREY, NON-CALCAREOUS, RARE IRONSTONE CONCRETIONS, LOCAL SAND AND SILT.
						MORDEN		55	● SHALE, GREY WITH HEAVY CALCAREOUS SPECKS, LIMESTONE BANDS AND BENTONITE.
						ASSINIBOINE		40	● SHALE, DARK GREY, NON-CALCAREOUS, FINE-GRAINED QUARTZ SANDSTONE OR SAND "ZONE".
						FAVEL			
				KELD					
				ASHVILLE	BELLE FOURCHE WESTGATE NEWCASTLE SKULL CREEK		115	● SHALE, DARK GREY, NON-CALCAREOUS, FINE-GRAINED QUARTZ SANDSTONE OR SAND "ZONE".	
				EARLY CRETACEOUS	SWAN RIVER		75	● SANDSTONE AND SAND, FINE-GRAINED WITH SILTS AND GREY, NON-CALCAREOUS CLAYS, PYRITIC, GLAUCONITIC.	
		150		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.	
		MELITA	UPPER LOWER			* OIL PRODUCING			
		RESTON			45	* LIMESTONE, BUFF AND SHALES, GREY. OIL PRODUCING			
200		MIDDLE JURASSIC	AMARANTH	UPPER: EVAPORITE	45	* ANHYDRITE AND/OR GYPSUM, WHITE AND BANDED DOLOMITE AND SHALE. OIL PRODUCING			
		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			
					LODGEPOLE	FLOSSIE LAKE WHITWATER LAKE VIRDEN	185	* LIMESTONE AND ARGILLACEOUS LIMESTONE, LIGHT BROWN AND REDDISH MOTTLED, SHALEY ZONES, OOLITIC, CRINOIDAL AND CHERTY. OIL PRODUCING	
		DEVONIAN		ELK POINT GROUP	THREE FORKS GROUP	BAKKEN	UPPER MIDDLE LOWER	20	* TWO BLACK SHALE ZONES SEPARATED BY SILTSTONE. OIL PRODUCING
						TORQUAY	RESWILEY	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.
						ASHERN	UPPER (REEF) LOWER (PLATFORM)	75	● DOLOMITE, LIGHT YELLOWISH-BROWN, REEFOID.
								12	● LIMESTONE, FOSSILIFEROUS, HIGH-CALCIUM.
								135	● DOLOMITE AND SHALE, BRICK RED TO VARIGATED GREEN.
400		SILURIAN		INTERLAKE GROUP		135	● DOLOMITE, YELLOWISH-ORANGE TO GREYISH-YELLOW FOSSILIFEROUS, SILTY ZONES.		
450	ORDOVICIAN			STONEMOUNTAIN GROUP	STONEWALL	UPPER LOWER WILLIAMS	20	● DOLOMITE, GREYISH-YELLOW, BEDED.	
					STONY MOUNTAIN	GUNTON		25	● DOLOMITE, YELLOWISH-GREY, SHALY.
						PENITENTIARY		20	● DOLOMITE, DUSKY-YELLOW, FOSSILIFEROUS.
					RED RIVER	GUNN		20	● SHALE, RED-GREEN, FOSSILIFEROUS LIMESTONE INTERBEDS.
						FORT GARRY SELKIRK CAT HEAD DOG HEAD		170	● DOLOMITIC LIMESTONE, MOTTLED AND MOTTLED DOLOMITE.
500		WINNIPEG	UPPER SHALE LOWER SANDSTONE	60	● SHALE, GREEN, WAXY, AND INTERBEDDED SANDSTONE. SAND AND SANDSTONE, QUARTZOSE.				
550		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.		
		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.