AGE Millions of years before present	ERA	PERIOD	EPOCH	FORMATION	MEMBER	MAX. THICK (m)	BASIC LITHOLOGY
		QUATER- NARY	RECENT				TOP SOIL AND DUNE SANDS.
	CENOZOIC		PLEISTO- CENE	GLACIAL DRIFT		140	CLAY, SAND, GRAVEL, BOULDERS AND PEAT.
50		TERTIARY	PLIOCENE MIOCENE OLIGOCENE EOCENE		PEACE GARDEN		SHALE, CLAY, SAND, LIGNITE BEDS. LOCATED ONLY IN
65			PALEO- CENE	TURTLE MOUNTAIN	GOODLANDS	120	TURTLE MOUNTAIN.
		CRETACEOUS	UPPER	BOISSEVAIN		30	SAND AND SANDSTONE, GREENISH-GREY. LOCATED ONLY IN TURTLE MOUNTAIN.
				PIERRE SHALE	COULTER ODANAH MILLWOOD PEMBINA GAMMON FERRUGINOUS	340	SHALES, GREY, NON-CALCAREOUS, LOCAL IRONSTONE, BENTONITE NEAR BASE, GAS SHOW. SHALE, DARK GREY, CALCAREOUS, NON-CALCAREOUS, BENTONITIC BANDS.
				NIOBRARA	SAMMON ENGOGRAPO	75	SHALE, GREY SPECKLED, CALCAREOUS, BENTONITIC, SLIGHTLY PETROLIFEROUS.
				MORDEN SHALE		55	SHALE, DARK GREY, NON-CALCAREOUS, RARE IRONSTONE CONCRETIONS, LOCAL SAND AND SILT.
100				FAVEL	ASSINIBOINE KELD BELLE FOURCHE	40	SHALE, GREY WITH HEAVY CALCAREOUS SPECKS, LIMESTONE BANDS AND BENTONITE.
100	zoic		LOWER	ASHVILLE	WESTGATE NEWCASTLE (ASHVILLE) SKULL CREEK	115	SHALE, DARK GREY, NON-CALCAREOUS, FINE-GRAINED QUARTZ SANDSTONE OR SAND "ZONE".
	MESOZOI		CRETACEOUS	SWAN RIVER		75	SANDSTONE AND SAND, FINE-GRAINED WITH SILTS AND GREY, NON-CALCAREOUS CLAYS, PYRITIC, GLAUCONITIC.
150		JURASSIC	UPPER	WASKADA		200	BANDED, GREEN BENTONITIC SHALE AND CALCAREOUS, GLAUCONITIC SANDSTONE.
			JURASSIC	* MELITA	UPPER LOWER	200	BANDS OF SANDY LIMESTONE, VARI-COLOURED SHALE AND SANDSTONE. OIL PRODUCING
			MIDDLE JURASSIC	RESTON		45	LIMESTONE, BUFF AND SHALES, GREY.
				* AMARANTH	UPPER: EVAPORITE	45	ANHYDRITE AND/OR GYPSUM, WHITE AND BANDED DOLOMITE AND SHALE.
200					LOWER: RED BEDS	40	SHALE, RED TO SILTSTONE, DOLOMITIC. OIL PRODUCING
250		TRIASSIC PERMIAN PENNSYL- VANIAN	(?)	ST. MARTIN COMPLEX		300	CARBONATE BRECCIA AND TRACHYANDESITE (CRYPTO-EXPLOSION STRUCTURE).
				CHARLES	DANDO_EVAP.	20	MASSIVE ANHYDRITE AND DOLOMITE.
300		M - 8 8 - 8 8 - P P - 4 N		WISSION CANYON	MC-3 MC-3a MC-2 MC-1	120	LIMESTONE, LIGHT BUFF, OOLITIC, FOSSILIFEROUS, FRAGMENTAL, CHERTY, BANDS OF SHALE AND ANHYDRITE. OIL PRODUCING
				* LODGEPOLE	FLOSSIE LAKE WHITEWATER LAKE VIRDEN SCALLION ROUTLEDGE	185	LIMESTONE AND ARGILLACEOUS LIMESTONE, LIGHT BROWN AND REDDISH MOTTLED, SHALEY ZONES, OOLITIC, CRINOIDAL AND CHERTY. OIL PRODUCING
350				* BAKKEN	UPPER MIDDLE LOWER	20	TWO BLACK SHALE ZONES SEPARATED BY SILTSTONE. OIL PRODUCING
400	ဋ	DEVONIAN		Qu'Appelle THREE FORKS	ZOWZIX	35	SILTSTONE AND SHALE, RED, DOLOMITIC.
				BIRDBEAR DUPEROW		40	LIMESTONE AND DOLOMITE, YELLOW-GREY, FOSSILIFEROUS, POROUS, SOME ANHYDRITE.
						170	LIMESTONE AND DOLOMITE, ARGILLACEOUS AND ANHYDRITIC IN PLACES.
	PALEOZOIC			SOURIS RIVER (FIRST RED) DAWSON BAY (SECOND RED)		120 65	CYCLICAL SHALE, LIMESTONE, DOLOMITE AND ANHYDRITE. LIMESTONE AND DOLOMITE, ANHYDRITIC. LOCAL RED AND GREEN SHALE.
				DDAIDIE		120	HALITE, POTASH, ANHYDRITE AND DOLOMITE INTERBEDDED.
	₽			WINNIPEGOSIS	LIDDED (DEEE)		
				EI M POINT		75	DOLOMITE, LIGHT YELLOWISH-BROWN, REEFOID.
				ASHERN	LOWER (PLATFORM)	12	LIMESTONE, FOSSILIFEROUS, HIGH-CALCIUM. DOLOMITE AND SHALE, BRICK RED TO VARIGATED GREEN.
		SILURIAN		INTERLAKE GROUP		135	DOLOMITE, YELLOWISH-ORANGE TO GREYISH-YELLOW FOSSILIFEROUS, SILTLY ZONES.
				STONEWALL	UPPER	20	DOLOMITE, GREYISH-YELLOW, BEDDED.
	_	R	D O	STONY	LOWER WILLIAMS GUNTON		DOLOMITE, YELLOWISH-GREY, SHALY.
		0		MOUNTAIN	PENITENTIARY GUNN	25 20	DOLOMITE, DUSKY-YELLOW, FOSSILIFEROUS. SHALE, RED-GREEN, FOSSILIFEROUS LIMESTONE INTERBEDS.
450		V I C	RED RIVER	FORT GARRY SELKIRK CAT HEAD DOG HEAD	170	DOLOMITIC LIMESTONE, MOTTLED AND MOTTLED DOLOMITE.	
		I A		WINNIPEG	UPPER SHALE	60	SHALE, GREEN, WAXY, AND INTERBEDDED SANDSTONE.
500	-	CAMPRIAN			LOWER SANDSTONE		SAND AND SANDSTONE, QUARTZOSE. SAND, BLACK TO GREEN-GREY, WAXY, GLAUCONITIC SILTSTONE AND SHALE, GREEN-
550	1	CAMBRIAN		DEADWOOD		60	GREY TO BLACK, LOCATED ONLY IN EXTREME SOUTHWEST CORNER OF MANITOBA.
	FT-						
	PRECAMBRIAN						ACID AND BASIC CRYSTALLINES AND METAMORPHICS.
+ productiv	a int	orvale					 documented oil shows

* productive intervals

documented oil shows

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