

SECTION OF UTICA ALONG CRICHTON STREET, RIDEAU.

STRATA HORIZONTAL.—IN DESCENDING ORDER.

Superficial deposits, road metal, &c. (RECENT).	4 inches.
UTICA FORMATION.	
Band of impure nodular argillaceous limestone belonging to the Utica formation.	Impure limestone, 3 inches.
Series of thin and soft brittle shaly strata, with occasional rounded concretionary masses of various sizes distributed in the softer material.	Soft, brittle shales, 14 inches.
Band composed almost exclusively of impure nodular limestone, arranged in irregular masses separated by shaly or argillaceous material.	Impure limestone, 8 inches.
Shaly strata, apparently destitute of nodular or concretionary masses, cleavage planes in the shales at right angles to the planes of stratification.	Shales, 11½ inches.
Band of partially disintegrated nodular limestone.	limestone, 6 inches.
Series of very soft earthy strata, most probably shaly at one time; but deprived of its cementing materials.	Soft, earthy strata, 10½ inches.
Band of dark-grey, hard, compact, impure limestone, not so bituminous as beds in lower part of this section, nodular and concretionary in certain portions which are probably so disintegrated as to point out the lines of conchoidal fracture in which the beds would break. Rhombohedra of calcite are rather abundant in numerous veins. Bed holding <i>Asaphus Canadensis</i> , Chapman; <i>Triarthrus Becki</i> , Green; <i>Leptæna sericea</i> , Sby; <i>Orthis testudinaria</i> Dalman; <i>Leptæbolus</i> and <i>Lingula</i> , &c.	Impure limestone, 6 inches.
Dark brittle and bituminous shales, very thin and fissile, holding abundant remains of the ubiquitous shell <i>Leptæna sericea</i> , Sowerby.	Brittle shales, 3 inches.
Band of light-weathering, dark, bituminous limestone, in which were found the remains of <i>Bucania expansa</i> , Hall, and <i>Leptæna sericea</i> , Sowerby (a rugose variety of the latter).	Bituminous limestone, 10½ in., (plus).
NOTE.—Proceeding in a northerly direction, along the same street, the above bed, of which only ten and a half inches are exposed at the bottom of the trench where the section was taken, may be seen to crop out on the surface of the ground, opposite house No. 101, where the following section was observed:	
Additional five inches of dark, impure, bituminous limestone similar to above, disintegrating in certain portions of the band.	5 inches.
Hard, compact, dark, impure, bituminous shales or shaly limestone, holding abundant fossil remains: <i>O. testudinaria</i> , Dalman; <i>Leptæna sericea</i> , Sowerby; <i>Endoceras Proteiforme</i> , Hall, &c., &c.	Imp. shales or limestone, 2 ft. 1 in.
Series of black, bituminous shales teeming with fossils, typical of the Utica formation: <i>Leptæna sericea</i> , Sowerby; <i>Strophomena alternata</i> , Conrad; <i>Orthis testudinaria</i> , Dalman; <i>Zygospira Hendi</i> , Billings; <i>Lyrotesma pulchellum</i> , Hall; <i>Endoceras Proteiforme</i> , Hall; <i>Asaphus Canadensis</i> , Chapman, &c., &c. (base of section).	Bituminous shales, 4 inches, (plus).