

shales of the Chazy and in the accompanying calcareous bands :

*Fossils from the Chazy Beds.*

1. *Orthis imperator*, Billings.
2. " *borealis*, Billings.
3. " *platys*, Billings.
4. *Rhynchonella plena*, Hall.
5. *Raphistoma staminea*, Conread.
6. *Modiolopsis parviuscula*, Billings.
7. *Orthoceras antenor*? Billings.

But little time was spent collecting here, which accounts for scarcity of forms.

BLACK RIVER AND TRENTON FORMATIONS.

Following the measures in an ascending order the escarpment is met with next. This escarpment, which faces the north and presents its bold front to the Ottawa Valley at the quarries, belongs to the Black River and Trenton formations, or to the Trenton group as it is sometimes called.

The two formations pass imperceptibly from one into the other, only an arbitrary line can be drawn to separate them. The lower part of the escarpment at the quarries belongs to the Black River formation, whilst the upper portion is distinctly Trenton in *facies*. It was in the lower half at the level of the tramway and track, some 15 feet higher than the swamp facing the quarry, that the proprietor, Mr. Archie Stewart found a large coral mass, which he brought to the museum of the Geological Survey for identification. It proved to be the typical coral, *Columnaria Halli*, Nicholson. At a higher elevation, some fifty feet above the *Columnaria* horizon, masses of *Tetradium fibratum*, Safford, were found, which are considered characteristic Black River forms also, yet these were immediately followed by large colonies of *Prasopora Selwyni*, Nicholson, associated with orthoceratites and brachiopoda, of typical Trenton aspect.

The beds throughout the section proved to be highly fossiliferous, but especially so were those in the highest and thin-bedded portions of the escarpment. The beds were seen to vary in thickness, but