

The Becraft is a coarsely crystalline limestone (calcarenite) in sections 1, 2 and 3, containing many specimens of *Gypidula pseudogaleata* (Hall) and *Spirifer concinnus* Hall. In section 4 these beds will probably be found in the lower portion of the covered strata called Port Ewen, as the upper 20 feet of that section, correlated with the Becraft on stratigraphic grounds, are very similar both lithically and faunally to the uppermost New Scotland of section 3. No *Gypidula pseudogaleata* occurs in the Maryland section but *Spirifer concinnus* does; the latter species is thus found in all the sections, omitting section 4. *Spirifer macropleura* (Conrad) does not occur in the Becraft in any section.

The Port Ewen is not recognized in section 5, and is covered in section 4. In section 1 it is very similar lithically and faunally to the Coeymans, while in sections 2 and 3 it quite closely resembles in like characters the New Scotland.

The Oriskany of all the sections is more or less silicious. Some beds of section 2 and the upper Oriskany of section 5 are more distinctly sandstones. The fauna of sections 1 and 2 and the upper beds of 3 and 4 represent the calcareous facies of the normal Oriskany.<sup>1</sup> Sections 1 and 2 contain many more of the typical shallow water forms than do sections 3 and 4. The lower beds of sections 3, 4 and 5 contain an older Oriskany fauna. In the shallowing waters of the upper portion of the Oriskany of section 5 there was developed the normal Oriskany fauna.

As seen from the above sections, there is an increase in thickness of the upper Siluric and the lower Devonian strata from the north to the south, indicating a greater subsidence in the latter than in the former regions. These strata thin out westward in New York State, disappearing, with the exception of 7 feet of Manlius<sup>2</sup> and several inches of doubtful Oriskany sandstone, before Buffalo is reached. This is shown in the accompanying diagram [fig.4] taken from Hartnagel's report on the Cobleskill limestone of New York.<sup>3</sup>

<sup>1</sup>See Oriskany under "General description of each horizon."

<sup>2</sup>Grabau, A. W. Siluro-Devonian Contact in N. Y. Geol. Soc. Am. Bul. 1900. p.347-76.

<sup>3</sup>Hartnagel, C. A. Preliminary Observations on the Cobleskill ("Coraline") Limestone of New York. N. Y. State Paleontol. An. Rep't. 1902. p.1109-75.