

Coming westward, at Tribes Hill, a measured 40 feet of Trenton is the section record, and it terminates in the formation, so that the actual thickness may be somewhat greater. At the base is a 12 foot thickness of massive, dark blue limestone, with some crystalline lenses, followed by 11 feet of thin bedded, uneven, gray crystalline and dark colored limestones, which are capped by 17 feet of thin bedded, uneven, dark blue limestone.

At Spraker the formation has thinned to 17 feet, both contacts showing, and consists of thin layers of dark blue limestone, apparently representing the upper part only of the Tribes Hill section and with the Lowville and Black River both lacking as well. Three miles west, at Canajoharie, the thickness and lithologic character are the same, and here the unconformity between the Beekmantown and Trenton is also plainly marked by a discordance in dip [pl.7].

In the district about Little Falls the formation shows considerable variation in thickness, with rapid increase westward. On East Canada creek it is about 50 feet thick, with the Lowville always, and the Black River sometimes appearing beneath. Here it consists largely of gray, crystalline, fossiliferous layers, these being capped by thin bedded, blocky, black limestones, which become intercalated with shales and grade into the Utica above, the distinctive passage beds being of about the same thickness as the ordinary Trenton.

At Little Falls Prosser has assigned 104 feet to the formation, though but little of it is exposed in his section. The writer's measurements north of that point show an average of 80 feet of thickness, with again an equal amount of passage beds above.

Along West Canada creek, between Herkimer and Middleville, the Trenton ranges from 100 feet to 120 feet in thickness, the gray, crystalline, thin bedded type largely predominating in the lower half of the section and the dark colored type in the upper. Here also is an approximately equal thickness of passage beds, alternate shale and limestone layers, the limestone being identical in character with the dark colored Trenton type, and the shale being indistinguishable from the ordinary Utica.

Northward from Middleville there are many exposures of the Trenton, but most are of merely the lower portion, and there is