

the Champlain valley and that it had withdrawn as far north as Street Road but probably had not withdrawn as far north as Trembleau mountain at Port Kent.

Coveville outlet [see pl.11]. One of the singularities of the gorges lateral to that of the Hudson in the upper valley of the river is the arrangement of the Hoosic opposite that of Round lake, and farther north the opposition of the channel of the Batten kill to that of Fish creek the present outlet of Saratoga lake. The only feature however of these side gorges to which sufficient attention has been paid in this survey to warrant discussion is the old channel of the Hudson west of Schuylerville. Between Northumberland and Bacon Hill a trough about 1 mile wide at top and $\frac{1}{2}$ mile wide over the floor overhangs the present gorge of the Hudson and extends southward to Grangerville where Fish creek valley enters it from the west. From this point the old trough extends southeastward to the west bank of the Hudson below Schuylerville, there overhanging the floor of the gorge at Coveville (the Dovegat of the Revolution), a remarkable recess in the western wall of the gorge. At Northumberland the restored contour of the floor of this old hung-up channel would make its present elevation about 220 feet above the sea; at Coveville the floor of this hanging valley is about 200 feet above tide. The cove at Coveville in its relation to this hanging valley shows clearly that a large stream at one time flowed southward over the wall of the gorge at this place into the main gorge of the Hudson river, and was arrested after a slight amount of cutting had been accomplished.

Fish creek now enters this old valley at Grangerville, flows along its eastern side for about 2 miles, turns sharply northeastward through a narrow and steep valley to the Hudson on the southern limits of old Schuylerville, falling approximately 100 feet in a distance of 2 miles.

The Hudson river must have at one time flowed through this Coveville valley at a time when the bed of the river was in this latitude approximately 100 feet higher than it now is. The 220 foot elevation of the old valley back of Northumberland coincides closely with the terrace on the east side of the river above Thompson and thence northward to the Moses kill. Furthermore the delta of the Batten kill northwest of Bald Mountain