

proximately at the 200 foot contour line. The Roeliff Jansen kill appears to have discharged against the ice edge and contributed to the building of this remarkable deposit. The terrace is highest where the river now intersects it and declines in level northward. At Cokerville 2 miles south of the kill there is a fragment of the terrace which lies still higher. The question of the attitude of the surface of these deposits in relation to contemporaneous water levels and the precise attitude of the land at this stage has not been as yet investigated. Presumably the drainage along the margin of the ice at this time was southward.

According to the topography of the Kinderhook quadrangle by Mr C. C. Bassett, the Livingston lateral glacial deposits with kame kettles appear to be continued across this district at a slightly increasing distance away from the river as they are traced northward. The map shows a large ice block hole between Ghent and West Ghent at an elevation of 350 feet. Due north of this locality about 10 miles is a large ice block hole of irregular shape nearly 2 miles in length in which lies Kinderhook lake, with its water level at 288 feet. The surface of the neighboring plain at Niverville is 328 feet. South and east of this ice block hole are depressions indicating the deposition of the surrounding sediments in the presence of melting blocks of ice. Similar small kettles are shown along the Valatie kill north of Kinderhook lake, and they occur also northwest of this lake at elevations between 280 and 340 feet according to the map. I have interpreted these phenomena as indicating that the eastern border of the ice at the Newburg stage or approximately at that stage extended along the line of these kettles and that the marginal ice was suffused with drift washed in along the border. It also appears that the later Albany waters could not have deposited sand and clay so high as these kettles else the depressions would have been filled. Kinderhook lake is decisive on this point.

*Schodack glacial terrace.* The above described deposits are continued on the north in the deltalike terrace of the Moordener kill. The upper terrace between Schodack depot and Schodack Centre rises to the height of about 340 feet on its outer margin overlooking the lower terrace about Albany. Its inner margin is about 360