

tain in some cases remains of the original concretion. A large portion of the manganese of Vermont is of this latter variety. By this process of concentration the percentage of manganese is increased in the "kidney ore" as compared to the earthy varieties, and the percentage of phosphorus and iron is decreased, while in the veins proper the oxide of manganese exists in nearly its pure state but as the sesquioxide.

In a future paper several important deductions resulting from the recognitions of the character of the beds associated with the manganese ores will be brought out.