

granite boulders are observed, with occasional amygdaloids. Continuing our course through fallen trees and brush to a distance of half a mile south of Canaan Road, we observe what seems to be the granite *in situ*. Reaching this we find immense masses of granite resting on stratified rock. Several outcrops of these rocks appear farther to the south-east. They are gneissoid rocks similar to those which we observed at Nictaux, and supposed from analogy to be of Cambrian age. Here is a field of grain. On the south is seemingly impenetrable forest. In this doubtless lies the extension of the granite observed to the south of the Canaan Road. We find and return by a cart road, on which are exposed frequent outcrops of the gneissoid and other metamorphic bedded rock, which were not observable on our preceding way. About a quarter of a mile from the Canaan Road and saw mill I reached the dyke of diorite. It seemed to be as wide as the dykes of Nictaux, to which I have devoted special attention in our Polariscopic studies. (*Vide papers, &c.*) Outcrops of slates, &c., occur before reaching the Canaan Road. The arrangement of rocks from North Mountain to our extreme point on South Mountain is: Triassic with dolerites, Post-pliocene drift, recent alluvium, Silurian (South Mountain) with diorites, gneissoid and slaty rocks. Cambrian? Distance nine miles.

These sections correspond generally with those of Nictaux. The only formation that presents peculiarity is the Pleistocene. I have noticed southerly transportation. I expected this, and even a certain amount of northerly transportation; but I was not prepared to find it so extensive or so much northerly. I regard this transportation to be the work of those agencies which formed the valley between North and South Mountain after the glaciers transported the basalts and amygdaloids and deposited them on the South Mountain and Atlantic coast. I therefore would refer this northern transportation and the "boar's back" drift, generally, to the Champlain period.

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