

g. m. d.  
Keswick

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Dear Papa

Today looked so threatening  
as regards the weather that Mr  
Ward did not think it worth  
trying to go to his regular work, &  
so took me up a Valley which lies  
near the foot of Skiddaw to show  
me rather an interesting section  
which exists there. At the head of  
the Valley a great boss of granite  
comes out, & all around the  
Skiddaw slates are altered &  
seem to pass into it. The slate  
as seen at the mouth of the Valley  
is

bluish & compact breaking  
pretty readily along the cleavage planes  
& scarcely showing traces of its  
original stratification. Going further

up the Valley the slate gradually  
becomes harder & full of chiasmite  
crystals. Still further ~~the~~ blackish  
flakes of hornblende appear. Then  
the chiasmite vanishes & the rock  
becomes a hornblende schist.

Still further this becomes micaceous  
& almost-gneissic. Then comes  
the granite which is nearly white  
in colour, but with black mica.

The transition between the hornblende  
gneiss & the granite seems to be very  
sudden, & thus would almost  
kind to show that the granite was

ly intrusive & not the extreme metamorphic condition of the slates.

Every valley here shows evident marks of glacial action. They are trough like in form & wind up among the mountains. All the projecting rocks are "mountained" & point down the valleys & scratches are to be seen not only along the bottom rock surfaces but high up the mountain sides. Nearly every valley too has piles of old moraine matter near the top.

Each valley has its own series of stranded boulders & perched blocks. & there can always be seen to have been brought down from rocks of the same kind further up the same valley. The only drift that can be put down as marine is that which is found in the very broad main valleys, &

That is not certain as it seems  
to contain no marine remains  
nor boulders brought from a  
distance. There appear to be no  
terraces such as are so common in  
Canada, at least except very  
minor ones immediately surrounding  
the lakes & showing their former  
greater height.

I got a letter from H. B. Brady this  
morning saying that if he intended paying  
a visit to the U.S. & perhaps Canada &  
asking if you would probably be at-  
home if he was in Montreal during the  
last of August or first part of September.  
I ~~shall~~ <sup>will</sup> write to him tomorrow morning  
saying that you will probably be in town  
about the latter time. He was one of the  
rejected candidates for the Royal Socy. this  
spring. Your obedient son  
George.