

A GLACIAL TRACK IN THE PEAK DISTRICT OF DERBYSHIRE
versus THE POTLUCK SILL.

SIR,—In the GEOLOGICAL MAGAZINE for February, 1935, on page 96, is a letter from Mr. Philip Jessop, in which he says that the boulders of dolerite and the outcrop of lava “led Bemrose (*Q.J.G.S.*, 1907, 241) to infer the existence of an intrusive sill at this place. Detailed examination shows, however, that the boulders are not in situ”.

Mr. Jessop postulates that the boulders have been transferred to their present locality by ice.

I have lately made several visits to Potluck. During the last year or two, a number of trial holes and several bore-holes have been made in at least three fields. The holes made near to where the boulders are on the ground, prove that the rock is in situ. I have examined thin slices made from three specimens taken from two of the bore-holes. One of them was drilled to a depth of 115 ft., and another to 70 ft., without getting through the intrusive rock. Two specimens from the first hole at depths of 106 ft. and 115 ft. respectively, consist of ophitic olivine-dolerite. From the second hole the specimen from a depth of 70 ft. is an olivine-dolerite with granular augite. They are very similar to the rocks I collected more than thirty years ago, but the olivine is in a much fresher condition. The bore-holes are about 150 yards from Black Hillock shaft.

We therefore have proof that here the sill is at least 115 ft. thick. These facts fully justify my having mapped this rock as a sill.

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GEOLOGY OF ECUADOR.

SIR,—I have read with much interest Dr. George Sheppard's recent book *The Geology of South-Western Ecuador*, and, in so far as many of the results originally appeared in the pages of this Magazine, the following remarks may prove of interest to your readers. During several months work in South-Western Ecuador the writer had occasion to make preliminary reports (in note form) on specimens, etc., collected in the area described by Dr. Sheppard. A number of these observations have been included in the book (see pp. 72-74, 136-138) and it is felt that in order that due allowance shall be made for possible inaccuracies, attention should be called to the fact that these remarks were not prepared for publication, and indeed their inclusion came as somewhat of a surprise to the writer.