feet long. 5 to 7 feet deep, and about 4 feet wide, trench A, 10 feet of ore is exposed, and in trench B. These all run approximatly at right angles to the there is over 33 feet of ore material. The actual general strike of the deposits. Also a small trench distance between the ends of these trenches is over extends from A to C, a distance of 260 feet, crosses 100 feet, and the offset distance, measured at right and the offset distance of strike of strike of the supposed general diseases of strike of rock. Another trench about parallel to C, has been is exposed throughout this distance in the bottom

spruce, and numerous small streams traverse the general direction of strike, for a distance of over our area, but only very imperfectly drain it. Thus owe feet, and they have an aggregate exposed width in the timber, soil, glacial, and other superficial mach C of over 66 feet. The amount of ore material deposits, very little bedrock is exposed in this vicing the would thus seem to be decidedly important. Then visited, the Stirling deposits had been very then visited, the Stirling deposits had been very the stirling deposits had rock formation is exposed on either side of the ore slightly exposed, nowhere to a depth exceeding 7 deposits, it consists of massive, finely textured, dark feet. Thus no estimate of the ore in sight could be these rocks have not been examined microscopically, th general field name of greenstones is here applied to them. Possibly types related to andesites, including diorites, diabases, or basalts, may occur.

A shear zone having a general trend of apparent-

ly about north 65 degrees east (magnetic), traverses the greenstones, and it is within this zone that the ere deposits occur. Every transition may be noted from quite massive practically unaltered greenstones in places merely sheared and altered to a greenstone schist. In other places pyrite has also been introduced in varying amounts. In places also, the rocks in addition to being sheared have been but a great amount of research and investigation has recently been done along these lines, and no doubt the original rock material has entirely given place to quartz, a whitish dolomitic mineral, zinc blende, chalcopyrite, and pyrite. Nearly everywhere, the copper-lead ores in the near future. The finding and ores are decidedly laminated, the lamination planes development of these deposits should also greatly general shear zone. Even where solid ore now occurs, including mainly zinc blende and chalcopyrite, with some quartz, the lamination planes are still very decided. The deposits are thus evidently due, largely at least, to metasomatic 'replacement, and have been produced by uprising and circulating solu-tions, within the zone of shearing, which have more or less entirely replaced the original rock and have deposited along the planes of shearing the minerals now constituting the ore deposits. Sections were measured of the exposures in the bottoms of the three main trenches.

All the ore material exposed in the bottoms of the three main crosseut trenches was sampled, ten samples being taken, which are numbered consecutively from 20 to 29 inclusive. Nos. 20 and 21 were taken from trench A; Nos. 22, 23, and 24 from trench B; and Nos. 25 to 29 inclusive from trench C.

extends from A to C, a distance of 200 feet, crosses and feet, and the onset distance, measured at right C, and persists possibly 50 feet farther. This trench angles to the supposed general direction of strike of is 1 to 2 feet wide, and 3 to 4 feet deep. Another the deposits, is about 90 feet, throughout which is 1 to 2 feet wide, and 3 to 4 feet deep. Another the deposits, is about 90 feet, throughout which small trench crosses trench B, and extends thence width it is not known whether ore occurs or not, northward along the general strike of the deposit; Trench C is about 260 feet from A, measured along about 60 feet. These trenches are all down to bed- the general strike of the deposits, and ore material dug to the south of C, but did not reach bedrock, as of a narrow trench extending from A to C. In the superficial deposits are there quite deep.

In the vicinity of these zinc-copper deposits, the 135 feet still fighther to the south-east, measured at land surface is dominantly flat and wet, and has been an offset at right angles to the general strike of the intensely glaciated. Glacial and other superficial deposits, a shaft has been sunk 14 feet in the bottom deposits overlying the bedrock have a thickness in of which good ore was found. No work has yet places of as much as 15 feet, but along the three been done to determine the amount of ore in this place is also fairly heavily timbered, mainly with have been actually traced by trenching along the spluce, and numerous small streams traverse the general direction of strike, for a distance of over 300

greenish to greyish green, igneous rocks having the made that would do justice to the property. From general appearance of andesites. Since, however, what was seen, however, all the evidence indicated what was seen, however, all the evidence indicated that the deposits are probably quite extensive, and sistent both longitudinally and vertically. grade of much of the ore material is also high. In one trench, for a width of 10 feet, the ore carries from 11 to 30 per cent. zinc, as well as significant amounts of lead, copper gold and silver. Also, in the main trench, there is 20 feet of ore containing 17 per cent. to over 27 per cent. zinc, as well as importstones, to ore composed almost exclusively of zine silver. In this trench, also, there is over 40 feet of ant amount of lead and copper, and some gold and ore material, which though of lower grade is still of consequence.

recently been done along these lines, and no doubt the owners of the Stirling deposits will be able to evolve a satisfactory method. In this event the deposits will become an important source of zincstimulate prospecting in Cape Breton, and it is hoped that, as a result, other important ore-bodies

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