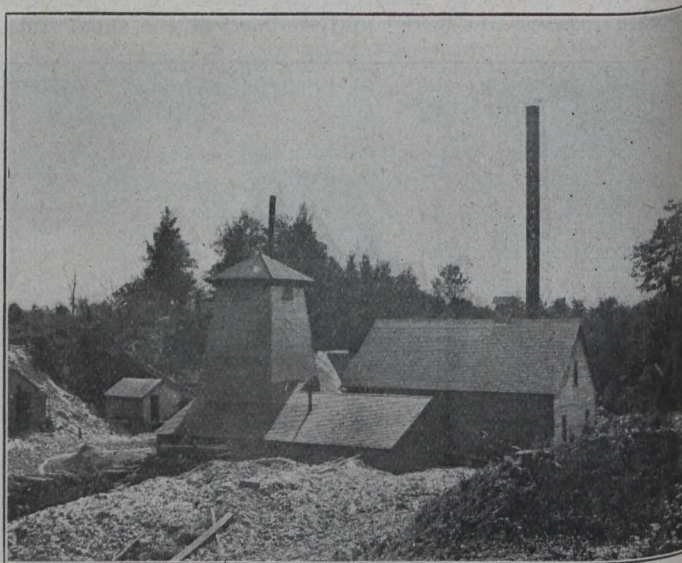


of about 130 feet along it, with an average width of vein of from 10 to 15 feet. This pit was abandoned in the early nineties, and the mineral right of the lot sold to the General Electric Company of Schenectady, N.Y. In 1899 a new discovery of mica was made about 200 feet southeast of the old workings. This has been worked continuously since that time and has been a large producer. It has been worked to a depth of 185 feet and longitudinally over 200 feet. The vein in some places is 20 to 25 feet in width. On the first level at a depth of 60 feet the drift has been run southeast on the vein a distance of 175 feet. On the fourth level at a depth of 117 feet two drifts run southeast, the easterly drift being 150 feet and the westerly drift 135 feet in length. Northwest of the shaft the mica has been stoped

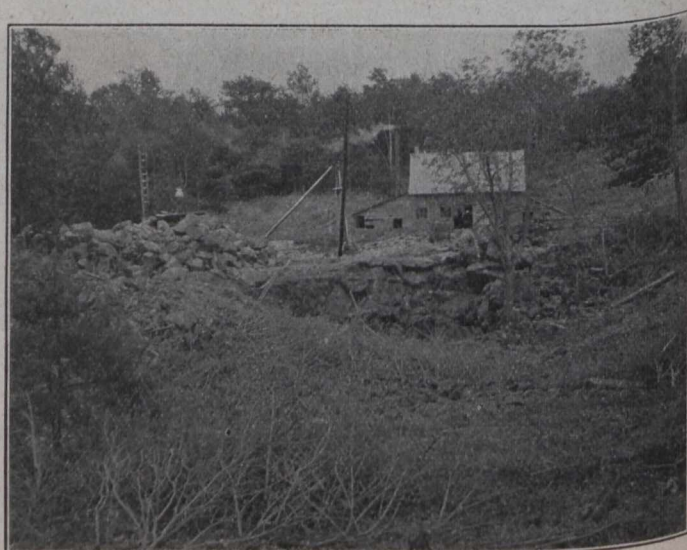
of the mine, where the bedding occurs at an angle of about 20 degrees from the vertical and at right angles to the vein.



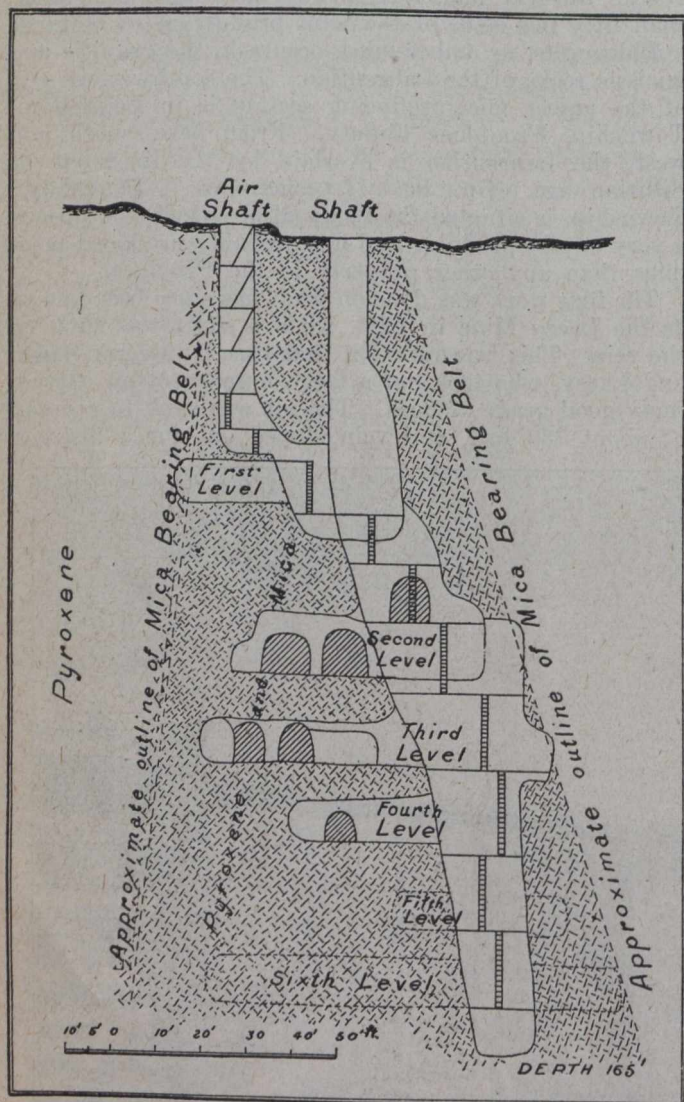
Lacey Mica Mine, Sydenham, Ont. Operated by the General Electric Co.

The mine is well equipped with two 60 horse-power return tubular boilers, six drill compressor and hoist.

About three miles from the Town of Elgin, on lot 7, in the 6th concession of Bastard Township, County of Leeds, the Brockville Mining Company are working a property which is of interest in that it occurs some distance from any other workable deposit, and also the mode of occurrence of the mica is different. The mica is a very dark amber, almost verging into a biotite. The vein is about 4 feet in width and dips at 30 degrees to the horizontal. The vein material is composed, as usual, of calcite and pyroxene, with the mica crystals, being crystallized throughout. The main difference between it and the larger mica deposits in the Province is that there is no (what the miners term) mica rock lying along each side of the vein. This mica rock is generally a mica pyroxene schist, which occurs between the vein and the granite or granite gneiss. At this particular deposit the vein cuts the country rock, which is a very dark hornblende granite, thus leaving the mica crystals lying right against the granite. On account of the hardness of the rock, the mica has been crushed considerably



Mica Mine near Elgin. Owned by the Brockville Mining Co.



Vertical Section of Lacey Mica Mine, Sydenham, Ont.

out for a distance of about 50 feet. On the second level a cross-cut has been driven a distance of 55 feet to cut a parallel ore body, which thus lies between the old and new workings. This body is about 75 feet in length, 60 feet in depth, and has an average width of about 8 feet.

The mica, which is a phlogopite, occurs in a vein matrix of calcite and pyroxene. The phlogopite is well crystallized, sometimes occurring in crystals 6 feet in diameter, and sometimes 4 to 5 feet in thickness. The wall matter surrounding the vein is essentially a mica pyroxene schist. The bedding of this rock cuts the vein at right angles. This is very marked on the fifth level