

FLUORITE, BARITE, AND IRON ORE.

Small deposits of fluorite, barite, and hematite are found in the eastern part of Matachewan area. These have not been examined by the writer. The following descriptions are from the report on the area by A. G. Burrows.

FLUORITE.

"Fluorite (fluorspar) has been found in small quantity in a number of quartz veins in Cairo and Alma townships, but none of the deposits examined is of commercial value. Owing to the widespread occurrence of the mineral, it is possible that prospecting might result in the finding of economic deposits. The mineral is of a deep purple colour, occurring in small masses in the quartz or in the wall rock adjacent to the veins. It is also present in the Biederman barite vein. One occurrence where the fluorite in the quartz is on the Harvey claim, No. 18285, west of the road from Fox rapids north to the Craig claims. This vein is about 7 inches wide, strikes north 75 degrees east, and has been traced several hundred feet. Some pieces of fluorite, 2 inches across, were taken from the vein. All the showings of fluorite are in the syenite."

BARITE.

"Veins containing barite occur in several parts of the area. These are generally small, but two deposits have been found which would be of commercial value were they nearer railway transportation. These are the Biederman deposit in Cairo township, and a deposit near Yarrow lake in Yarrow township.

Biederman Claim.

The claim (15042) is situated on the west shore of Browning lake, in the north part of Cairo township. The country rock is a red syenite in which there is a barite vein with strike north 65 degrees west and dip 80 degrees north. The deposit can be observed about 100 feet from the shore of the lake where a shallow shaft has been sunk at a point where the vein has been concealed by drift to the east. Here there is a width of 15 feet, and the barite can be traced westerly for 100 feet, decreasing to a width of 7 feet. Beyond this there is drift followed by an exposure of barite about 30 feet in length and 3 feet wide at the east end and 2 feet wide at the west end. The barite is for the most part white in colour and of good quality. At the shaft there are minor quantities of zinc blende, galena, and specularite, and a little fluorite, as impurities. The deposit also contains at this point some large inclusions of syenite. A sample across 8 feet, on analysis, contains 90.50 per cent barium sulphate.

Yarrow Deposit.

This deposit occurs along the creek which flows from Yarrow lake to Mistinikon lake. The rocks are slate and quartzite of the Cobalt series,