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ON THE COVER-This photograph shows a vein of massive barite in Archean syenite on the shore of Browning Lake, near Matachewan, Ontario. The barite was mined for use in drilling mud and as an extender in paints and other applications. Barite veins are common in the Matachewan area, and are general perpendicular to fault-controlled lakes. Glacial erosion (right to left) has eroded a depression in the soft barite on top of the hill. Barite ore (white) is stockpiled in the foreground in front of the adit. Photograph by Bob Stewart, CPG-8332, summer 1984

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