THE CANADIAN MINING JOURNAL

THE OFFICIAL ORGAN OF THE CANADIAN MINING INSTITUTE

VOL. I, No. 7, New Series

TORONTO and MONTREAL, June 15, 1907

Old Series, Volume xxviii, No. 9

The Canadian Mining Journal

With which is incorporated the

"CANADIAN MINING REVIEW"

Devoted to Mining, Metallurgy and Allied Industries in Canada

Published fortnightly by the

MINES PUBLISHING CO., LIMITED

Confederation Life Building, Toronto, and 171 St. James Street, Montreal.

Branch Offices Halifax, Victoria, and London, Eng.

Editor:

J. C. MURRAY, B.A., B.Sc. .

Associate Editor, H. MORTIMER-LAMB, Secy. C.M. Inst.

J. J. HARPELL, B.A.

Business Manager - - -Circulation Manager

A. P. DONNELLY, B.A.

SUBSCRIPTIONS—Payable in advance, \$2.00 a year of 24

numbers, including postage in Canada. In all other countries, including postage, \$3.00 a year.

Advertising copy should reach the Toronto Office by the 8th, for the issue of the 15th of each month, and by the 23rd for the for the issues of the 15th of each month, and by the 23rd for the issues of the 15th of each month, and 3, some issues of the first of the following month. If proof is required, the the copy should be sent so that the accepted proof will reach the Toronto Office by the above dates.

SPECIAL CONTRIBUTORS

GEOLOGY: Dr. Frank D. Adams, McGill University; Dr. A. E. Barlow, late of Geological Survey of Canada; Professor Willett G. Miller, Provincial Geologist of Ontario; Dr. J. E. Woodman, Dalhousie University, Halifax, N.S.

Kingston, Ontario; Milton Hersey, M.Sc., Official Analyst

Province of Quebec.

MINERALOGY: Professor W. Nicolet, School of Mining, King-

Ston, Ontario.

MINING: H. Mortimer-Lamb; S. S. Fowler, M.E., Nelson, B.C.;
Frederick Keffer, M.E., Anaconda, B.C.; A. B. Willmott,
M.E. Sault Ste. Marie, Ont.; J. C. Gwillim, M.E., School of
Mining Control of Control of Mining Control of Control of Mining Control of Control Mining, Kingston, Ont.; J. Bonsall Porter, M.E., McGill University; John E. Hardman, M.E., Montreal; Fritz Cirkel,

M.E., Montreal; Dr. E. Gilpin, Department of Mines, Hali-M.E., Montreal; Dr. E. Gilpin, Department of Mines, Hali-METALLURGY: Hiram W. Hixon, M.E., Truro, N.S. Victoria Mines, Ontario; Stafford F. Kirkpatrick, School of Mining, Kingston, Ontario; A. P. Scott, Dominion Iron & Steel Co. Care Presen

Steel Co., Cape Breton.

COAL: Hon. Robert Drummond, Stellarton, N.S.

NATURAL OIL AND GAS: Eugene Coste, M.E., Toronto, Ont.

CEMENT: Manley Baker, M.A., School of Mining, Kingston, Ont.

CONTENTS

EDITORIALS	PAGE.
MICHALS	. 193
MICA IN ONTARIO. THE MARBLE BAY COPPER DEPOSIT	. 196
THE MARBLE BAY COPPER DEPOSIT MAGNETIC CONCENTRATION OF IRON ORES.	. 200
MAGNETIC CONCENTRATION OF IRON ORES. THE RICHARDSON MINE	200
Olibo	7 1 77 77 77 77
TOUR D. SORTHIT OHERST	
PERSON RECEIVED	. 221
STATES ONAL AND GENERAL	. 221
PERSONAL AND GENERAL STATISTICS AND RETURNS New Notes	. 222
NEW NOTES	223
MEW COMPANIES METAL, ORE AND MINERAL MARKET	224
Metal, Ore and Mineral Market	. 227

A PICTOU COPPER SMELTER

The Dominion Mining & Smelting Company, of Pictou, Nova Scotia, is urging upon the Government and people of that Province the necessity of securing lower rates of transportation. There are several promising deposits of copper in Pictou, Colchester and Cumberland Counties. There are also more than a few totally undeveloped properties being held by persons who cannot afford to open them under the conditions now prevailing. The Pictou smelter is favorably situated as regards water shipments. It overlooks the splendid harbor of Pictou. The present capacity of the smelter is seventy tons of ore per day, making a forty-five per cent. matte. The average charge of treatment at the smelter is about \$6 per ton for ore laid down at their wharf, or in the ore sheds by rail f.o.b. The company also offers to treat ores on the custom basis.

As a commercial enterprise, the Pictou copper smelter is decidedly worthy of encouragement. Concessions in the direction of nominal freight rates and active help from the Government in the development of individual properties should be offered cheerfully. The Provincial Government owns several diamond drills and has a Department of Mines. In what better work could the Department be engaged than in giving active assistance to the owners of copper properties. All of our important metallurgical industries have either started from very small beginnings or in their inception have met with serious obstacles. The soundest success is that resulting from a small beginning. It is altogether likely that Nova Scotia, by judiciously encouraging the attempt of the Dominion Mining & Smelting Company, will be taking the first step in establishing a successful and important industry of this nature. There is no need of injecting a large amount of capital. The smelter is already in operation. To keep it profitably employed, everyone at all interested in the copper possibilities of the Province should energetically push forward prospecting and development. And it is necessary always to bear in mind that rich returns must not be expected. The enterprise must be conducted on careful, businesslike lines. Even though some time should elapse before a small margin of profit is obtainable, it must also be remembered that whenever a measure of success justifies the erection of a larger and more modern plant, the cost of operations can be very largely reduced. We hope that the Province will see and grasp its opportunity. We hope also that the Town of Pictou will substantially encourage what seems to be a most deserving undertaking.