

## Action Follows Aerial Survey

Two or three months ago The Herald published an article sent out by the Ontario Department of Mines in regard to an aerial survey made of this part of the Province to ascertain what bodies of iron or magnetic ore there might be, if any. The article stated that maps had been issued and were available showing the results of the survey.

The amount of iron ore used by iron and steel companies of the United States and Canada is so great, approximately 100,000,000 tons a year, that available supplies are becoming smaller each year and all the big companies are looking for new sources of supply.

Among the iron and steel companies examining the maps turned out by the Department of Mines was the Bethlehem Steel Corporation, one of the largest users of iron ore in the United States. They were sufficiently interested to decide to investigate. As a result an option has been secured on a number of properties close to Marmora and these options have been registered in the County Registry Office at Belleville. A diamond drill also started operations yesterday.

So many factors enter into the opening and development of a mine that it would be unwise to get excited or over optimistic over present prospects. First there is the quantity of ore the diamond drilling may indicate. Next the quality of the ore, that is the percentage of iron in the ore. Too much sulphur or other minerals might make it very difficult to treat and other factors have to be considered, which only a thorough survey will reveal.

Should there be a satisfactory quantity of good ore, the location would appear to be extremely favorable, the property being situated so close to a railway. It would also be very fortunate for this district that Bethlehem Steel Corporation is carrying out operations, as the Company has immense capital and a reputation for fair dealing with its employees and those with whom it does business.

Dr. Wahl is in charge of the operations.

## Drilling Operations Enlarged

On June 15th The Herald announced that the Bethlehem Steel Corporation, one of the largest users of iron ore in the United States, had started drilling operations just south east of Marmora. Since that time The Herald has adopted the policy of the Corporation and maintained a discreet silence. In fact the policy of Bethlehem Steel Corporation is still one of official silence, but there is reason to believe that within the next couple of months an official statement will be issued.

That the exploration work done by the drillers has been encouraging is indicated by the fact the operations are being continued and considerably enlarged. In order to complete the preliminary drilling before winter, owing to long water lines, five drills, with their crews, will be in operation next week. They will do a lot of drilling in a few weeks.

Dr. W. G. Wahl, who is in charge of the exploration work, has just returned from a vacation with his family at Bethlehem and in New York and other American cities. For greater convenience in carrying on the clerical and business end of the operations he is opening an office in the rooms over Jones & Potts Hardware.

The Herald is satisfied that developments so far give reason for a good deal of optimism. Marmora Council and local business men are justified in at least looking ahead and deciding how they will meet the situation if the decision of the Corporation is to start mining operations here. The decision to erect a modern theatre is no doubt influenced by the favourable prospects and other sudden developments may be expected.

MARMORA HERALD  
21 SEPT, 1950  
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MARMORA HERALD  
15 JUNE, 1950  
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MAGNETIC MAP SPOTS  
DEPOSIT OF IRON ORE

Warren Baldwin, Ottawa correspondent of the Toronto Globe and Mail, had a recent interview with Dr. G. S. Hume, director of scientific services in the Department of Mines at Ottawa. Dr. Hume produced maps of Technical Surveys made from the air and explained how the results are obtained. Part of the article referred to the survey at Marmora and is as follows:

"For example, near the top of one map of the Hastings-Peterborough area in Ontario is a small oval-shaped cluster of these fine lines resembling nothing so much as a fingerprint. It was this little fingerprint which inspired the Bethlehem Steel Corp. to acquire a square mile of farm land and start operations which have now assured an important iron ore industry to the province. This deposit of magnetic ore near Marmora is not a Steep Rock or a Labrador find, but it will probably be capable of maintaining a very high production scale, and, what is more important, producing it beside a railway and within easy reach of power for concentration operations.

There were other factors besides map reading which sent officials of Bethlehem Steel hurrying to the spot, including the presence of the old abandoned Cordova iron mine a few miles away. But it was the magnetic map which spotted the deposit.

It was part of an air survey which covered an area of 1,200 to 1,300 square miles and costs which were paid by the Province of Ontario ran to about \$40,000. The survey was completed in January, 1949, and Bethlehem Steel took over the property in the spring. If nothing else has been accomplished the survey has paid for itself many hundred times over."

The above appeared in Monday's Globe, which was distributed in Marmora on Tuesday, after the article on the front page of The Herald was written. Both Ottawa and Toronto Departments of Mines appear to be very confident that an important iron mine is to be opened up here in the near future. We hope and believe they are right, but the Bethlehem Steel Corp. is not yet ready to give out any such definite information.

MARMORA HERALD

28 DEC, 1950

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**CENTRE HASTINGS SHARES  
MARMORA'S HOPES FOR  
MINING DEVELOPMENT**

All residents of Centre Hastings will share the hopes of the people of Marmora Village, that the deposits of iron ore, now being probed by The Bethlehem Steel Company, in that area, will be successfully developed. That one of America's biggest corporations is spending money to establish the extent of the iron ore deposits is assurance that the mineral field has worth-while possibilities.

Naturally, the people of Marmora are enthused over the potentialities of their area in this connection, and while it is yet too early to predict any great future for the district as the centre of a vast iron ore development, the fact that Bethlehem have drills working in all directions is a most encouraging sign. To suggest that Marmora's population will be quadrupled, and that the development may be bigger than Labrador, may be a little premature, but if and when, Bethlehem should announce that they are in Marmora to stay, it will unquestionably mean the greatest business boom any Hastings County village has ever experienced.

The people of Tweed and Madoc, neighbours of Marmora, share in the hope that all the dreams of the present will come true in the future. It has already encouraged the construction of new theatres and other places of business, and should this giant of the steel world decide definitely to establish in Marmora, the village will unquestionably become a great industrial centre. We sincerely hope that within a few months, this good news will be forthcoming.

Should Marmora become a great iron ore centre, interest will once again be directed to the possibilities

of other mineral developments in various parts of Hastings County. Over half a century ago, the Richardson gold mine north of Madoc, was one of the first open-pit developments in Canada, but for some reason or other internal strife within the company, caused it to close down. At one time Cordova, also near Marmora, was the scene of great activity but it too was closed down. North of Tweed at Flinton and Northbrook considerable money was spent in gold mining and three mines operated some years ago all of which are now dormant. Just prior to the last war The Consolidated Smelters reopened The Rich Rock but the mill was removed to the Yellowknife and hopes for that area dwindled. It was encouraging to read in last week's News that further attempts are being made to open the Kal-Addington property near Northbrook.

Hastings County may yet yield minerals of sufficient value and extent to re-open some of these old properties. Should Marmora produce a bonanza for The Bethlehem Company, it will re-awaken interest in mining generally throughout the whole district.

Last summer a group of geologists spent a considerable time in Tweed, and when the results of their findings are announced it may re-open new vistas from a mining standpoint. It was a magnetometer survey that started the present search for iron ore at Marmora and it is hoped that the assays will prove of sufficient value to warrant the Company going ahead.

—Tweed News.

MARMORA HERALD  
2 NOV, 1950  
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# New Developments In Iron Ore Exploration

Marmoraton Mining Company Limited  
Organized — Is a Subsidiary of Beth-  
lehem Steel Corp.

The December 9th edition of the Ontario Gazette contained the following announcement over the signature of Hon. G. A. Welsh, Provincial Secretary:

EXTRACT FROM THE ONTARIO  
GAZETTE — PAGE 2017

Saturday, December 9th, 1950

EXTRA-PROVINCIAL  
CORPORATIONS  
MARMORATON MINING COMPANY,  
LIMITED

NOTICE IS HEREBY GIVEN that, under The Extra Provincial Corporations Act, the Lieutenant-Governor in Council has, by a license under the Great Seal of the Province of Ontario, bearing date the 23rd day of November, A.D., 1950, been pleased to authorize Marmoraton Mining Company, Ltd., a Corporation created by or under the authority of the laws of the State of Delaware, one of the United States of America, on the 1st day of November, A.D., 1950, by Certificate of Incorporation, (a) To conduct the business of mining and other businesses necessary or convenient in connection therewith, including the prospecting and exploring for, and the mining, quarrying or otherwise extracting or removing of, and the beneficiating, concentrating, smelting, refining, treating and producing of, all kinds of ores, coal, gas, oil, sand, stone and/or other mineral, metals and/or substances, and the buying, selling, handling, working and otherwise dealing in such ores, coal, gas, oil, sand, stone and/or other minerals, metals and/or substances and the products thereof; and for the further purposes and objects therein set forth:

PROVIDED, however, that the Corporation in so doing shall not use in Ontario any larger amount of capital than the sum of \$1,000,000.00.

AND FURTHER PROVIDED that if the Corporation exercises in Ontario any greater or other powers or uses in Ontario any larger amount of capital than is therein authorized, unless it have obtained a further License for the purpose, the License herein referred to shall thereby become liable to be suspended or revoked in whole or in part; and that the Corporation has appointed Richmond Wyllie Hart, of the City of Toronto, in the County of York and Province of Ontario, one of His Majesty's Counsel learned in the Law, to be its Attorney.

G. A. WELSH,  
Provincial Secretary.

While the above announcement is not proof that an iron mine will actually be opened up here, when one considers the amount of exploration work carried on by Bethlehem Steel Corporation before the above company was formed it is good reason to believe that the large amount of diamond drilling carried on has had very encouraging results and that there is a real probability that a mine will be opened up.

The survey work done is another indication that there is likely to be some important developments. Aerial maps have been made of the whole property under option by Bethlehem Steel and a ground survey has been made in conjunction with the aerial one so as to be able to indicate on the maps the measurements and other necessary information.

It had been planned to discontinue drilling operations before Christmas, but as a result of assays and recent developments drilling will be carried on for a few weeks yet, but not on as large a scale as formerly. A steam boiler will be installed to overcome the difficulties resulting from water pipes freezing up and other interruptions due to cold weather.

After the drilling is completed there will likely be a period of a few months before any further action is taken locally. The work of completing the assays of the cores taken from the drill holes will take several weeks as the test cores can be taken out much faster than they can be run through the pilot mill and assayed.

The result of the assays will not only decide whether there is sufficient ore to warrant the opening of a mine, but may also play an important part in deciding the manner in which mining will be carried on if a mine is opened. For instance it might decide whether to operate underground or by pit mining. The question of the kind of buildings to erect, the location, cost and availability of building material required will require considerable planning and take time.

No announcement from the officers of the Company can be looked for until a decision is reached and plans more or less completed. The fact Bethlehem Steel Company has been so conservative has been one of the satisfactory features of the exploration work to date and no doubt the new company will follow the same policy.

It would be unfortunate for all concerned if too optimistic statements had led to a boom time here and then it was decided not to develop a mine after all. If a mine is eventually started it will mean a great deal to Marmora and Hastings County and probably to this part of Ontario. While it would be wise for business men to plan how they would meet the situation if there is a mine, their plans can be carried out while a mine is getting ready for production.

MARMORA HERALD  
28 DEC, 1950  
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## Marmora Iron Ore Exploration

"Saturday Night" in its Jan. 30 issue, had a very interesting article on the exploration work being carried on here by Bethlehem Steel Corporation. It started with a statement by United States Secretary of the Interior, Oscar Chapman, that carried a very big between-the-lines-message to the Canadian mining industry. He warned that iron ore stocks in the United States today are "dangerously low in the face of a critical demand for iron and steel for defence needs."

Shortage of lake freighters to move ore from the Lake Superior fields to steel mills in Ohio and Pennsylvania has caused the trouble according to Chapman and he foresaw no solution to the transport bottleneck until 1952 at the earliest.

The article then tells of steps taken to have a magnetometer survey made of 1450 square miles of promising territory in Hastings County. This survey was made by the Federal Government in conjunction with the Ontario Government. The survey and its results have been described in The Herald some months ago. The survey was completed in 1949, but the big job of mapping the results was not finished until 1950.

Action came fast when the maps were published and within a few weeks Bethlehem had taken options on several hundred acres near Marmora. Five diamond drills were eventually put to work and some of them are still working steadily. 20 drill holes have been completed ranging from 500 to 1900 feet in depth.

Bethlehem Steel has given out no definite statements as to its findings.

It has admitted that the deposits so far proved up by drilling are "of commercial value, but comparatively small in extent," and that the tonnage so far indicated is not sufficient to warrant construction of a beneficiating plant. The ore, their statement adds, is not of direct shipping grade, but will require crushing and beneficiating before use.

The article asks—How much ore has Bethlehem outlined at Marmora? How big does a deposit have to be before Bethlehem rates it as of commercial value? Commercial iron ore bodies run much larger, of course, than gold or base metal ore bodies. Beneficiating plants of the type used in New York State or by Algoma Steel handle 5000 tons a day or more of raw ore—and before a plant like this is built it needs 15 years or more of ore in sight, or anywhere from 30 to 50 million tons as a proven reserve.

Bethlehem Steel, no doubt, does not have that much proved up yet. Nobody outside of the Bethlehem head office is in much of a position to attempt estimates since the nature of the ore occurrences makes long range prediction useless. The ore occurs in streaks with fat and lean sections alternating as in a side of bacon—50 per cent ore grading off into 35 or 40 per cent several times in the length of a deep drill hole. Bethlehem will not have its drilling pattern completed until April or later. The Corporation has set June as the date on which final decision is made on its option on the rights.

The Herald feels that the fact Bethlehem is continuing its operations until April is very encouraging. The location of the property, near railways and only about 30 miles from water transport is an important fact. It is only about 400 miles from Bethlehem Steel mills—only about half the distance of any other iron ore body.

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1 FEB, 1951

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## Premature Announcements

Last week there was another flurry of excitement about Bethlehem Steel Corporation starting operations almost immediately. Apparently it all started as a result of the Ontario Deputy Minister of Mines, in an address, referring to the exploration work been carried on here. He is reported to have said that millions of tons of iron ore had been found and Bethlehem Steel would start a mine at an early date.

The radio, at various points, and a number of daily newspapers took up the report and enlarged on it to the extent that many people concluded the questions of opening a mine was definitely settled. As a result the head office of Bethlehem Steel in the United States was nearly swamped with telephone calls, telegrams and letters from firms or individuals looking for contracts of various kinds, wanting to supply materials, or looking for a job.

As a matter of fact nothing new has developed as far as any information gives out by the Corporations is concerned. Drilling operations are still being carried on, though on a somewhat reduced scale and they may end entirely for a time. That is what was expected. It will take some time to complete the testing of the cores taken from the drill holes and then there will be the consideration of the costs of opening a mine, erecting a mill and other operations in relation to the body of ore actually mapped out.

The Herald is still confident that a mine will eventually be opened, but it is doubtful if any definite announcement will be made before May or June.

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13 MAR, 1951

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## Will Iron Mining Start Soon?

That is a question to which there is as yet no definite answer. It is generally known, locally, that Marmoraton Mining Company Ltd. has exercised a number of its options on properties which it has held for the past year. That would appear to be proof that a considerable body of ore has been found, which there is good reason to believe can be mined economically. It is certainly very encouraging for Marmora and district, but it is only one stage in the operations which is necessary before actual mining can be started.

Other options have yet to be dealt with and there are other big problems to be solved before a definite decision in regard to operations is reached. For the present, drilling operations are being continued and new holes are being mapped out so as to obtain as complete a picture as possible of the extent of the ore body and the amount of ore in proportion to rock, etc.

Marmoraton Mining Company Ltd. and officials of Bethlehem Steel are not prepared to make any statement or predictions at the present time in regard to future operations. The Herald is confident that eventually an iron mine will be operated here, but the expenditure involved is so great that no hasty action should be looked for.

MARMORA HERALD

24 MAY, 1951

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# MINE TO BECOME A REALITY

**Mr. Paul B. Entrekin, General Manager of Mining  
Division of Bethlehem Steel Company  
Visited Marmora Last Week.**

While we still have no official statement by Bethlehem Steel Company as to when operations will start on the opening up of an iron mine at Marmora, The Herald is confident it will be comparatively soon. The many months of diamond drilling and exploration work have revealed that there is a body of iron ore sufficient to warrant the opening of a mine here.

A number of other developments also indicate that plans for the opening of a mine are well advanced.

Last week Mr. Paul B. Entrekin, General Manager Mining Division of Bethlehem Steel Company, visited Marmora and met quite a number of local business men. He made no secret of the fact the Company hopes to commence operations at an early date, as soon as certain problems can be worked out. One problem is an agreement with the Railways as to freight rates, which will make the shipment of ore economically feasible and still be fair to both parties.

It is understood that it is planned to mine the ore by the open pit method. It is estimated that will mean the removal of 10,000,000 tons of rock, which will require heavy expenditure before any ore is actually taken out. It will mean the employing of a large number of men and much machinery, which will mean a great deal, not only to Marmora, but also to all this part of the Province.

It is too soon yet to go into any details, but it will mean the erection of quite a number of houses and no doubt an influx of new businesses, which will make a big change in Marmora and district. The Herald has been very careful not to raise any false hopes or make any premature predictions as to the actual starting of a mine, but recent developments give every reason for optimism.

Mr. Entrekin stated that if a mine is opened here they wish to become part of the community and hope for the continued friendly co-operation between the officers and employees of the Corporation and the people of the community.

Mr. H. Olson, assistant superintendent of Cornwall Iron Mine, one of the oldest producing mines on the continent which is still going strong, has been appointed General Superintendent of Marmoraton Iron Mine and he is expected to take up residence in Marmora early in August. The supervisor will be Mr. Shale, who is superintendent of the Cornwall iron mine and supervisor of several other properties.

MARMORA HERALD - 26 JUL, 1951