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Report on the Geology of Robb, Jamieson, Loveland And MacDiarmid Twps.

L. G. Berry, of the Ontario Department of Mines, Writes Preliminary Report on the Kamiskotia District. Reference to General Geology, Structural Geology, and Gold and Other Occurrences.

During the summer of 1940, a geological survey of the townships of Robb, Jamieson, MacDiarmid, and Loveland, district of Cochrane, was conducted by the writer for the Ontario Department of Mines. The area is situated northwest of the Porcupine area. The southeast corner of Jamieson township is about 7 miles northwest of Timmins.

The eastern part of the area is easily accessible from the Mattagami river, which it navigable for power boats from Sandy Falls in Mountjoy township to Stargeon Falls in Mahaffy township (8 miles north of the area). Sandy Falls is 7 miles by motor road from Timmins. The western part of the area is traversed by overland trails and poor canoe routes converging on Kamiskotia lake. Kamiskotia river and Enid creek are difficult to use as canoe routes on account of the numerous rapids and log jams. Kamiskotia lake may be reached by airplane or from Kamiskotia Landing near the Mattagami river, via a 2 1/2 mile portage and Kamiskotia creek. Kamiskotia Landing is 8 miles by power boat from Sandy Falls. Christmas lake may be reached by winter road from Mountjoy township. A power line from Stargeon Falls to Timmins traverses the east edge of the area.

General Geology

The consolidate rocks in the area consist of early pre-Cambrian lavas and fragments of Keewatin type, which have been tightly folded and intruded in them by basic igneous rocks, granite and related acid dikes, and diabase dikes. A thick deposit of glacial clay completely obscures the bed rock in the eastern part of Jamieson township and the northern and eastern parts of MacDiarmid township. The table of formation is as follows:—

Matatchewan:—Quartzite diabase.
Algoman:—Granite
Haileyburian:—Gabbro, hornblende.
Keewatin:—Rhyolite, Greenstone, volcanic fragmentals, iron formation.

Keewatin

The Keewatin rocks outcropping in this area consist of altered massive lavas, pillow lavas and associated volcanic fragmentals of intermediate and basic composition, and massive rhyolite. The rocks mapped as greenstone and rhyolite south of Kamiskotia lake are very highly altered by the combined action of the gabbro and the several small bodies of granite.

Haileyburian

Large outcrops of coarse gabbro, hornblende, and diorite occur chiefly in the southern part of Robb township. These rocks intrude the Keewatin volcanics and are intruded by granite and felsite. The gabbroic phases of the main intrusive west and south of Kamiskotia lake show fine banding at N. 40 degrees—60 degrees W. The outcrops mapped as Haileyburian in MacDiarmid and Loveland townships may be coarse phases of thick Keewatin lava flows.

Algoman

Several small masses of granite occur in Loveland township and south and southeast of Kamiskotia lake. The small stock south of Kamiskotia lake consists of a highly altered, fine-grained granite, which has been jointed and sheared and is cut by numerous small quartz stringers. Felsite, apite, and quartz and feldspar porphyry dikes are found cutting the Keewatin and Haileyburian rocks, chiefly in the vicinity of the granite intrusives.

Matchawen

Quartz diabase dikes having a maximum width of 150 feet and striking north-south to N. 15 degrees W. are of common occurrence. These dikes are found in intrusive relationship to all the other types of rock in the area.

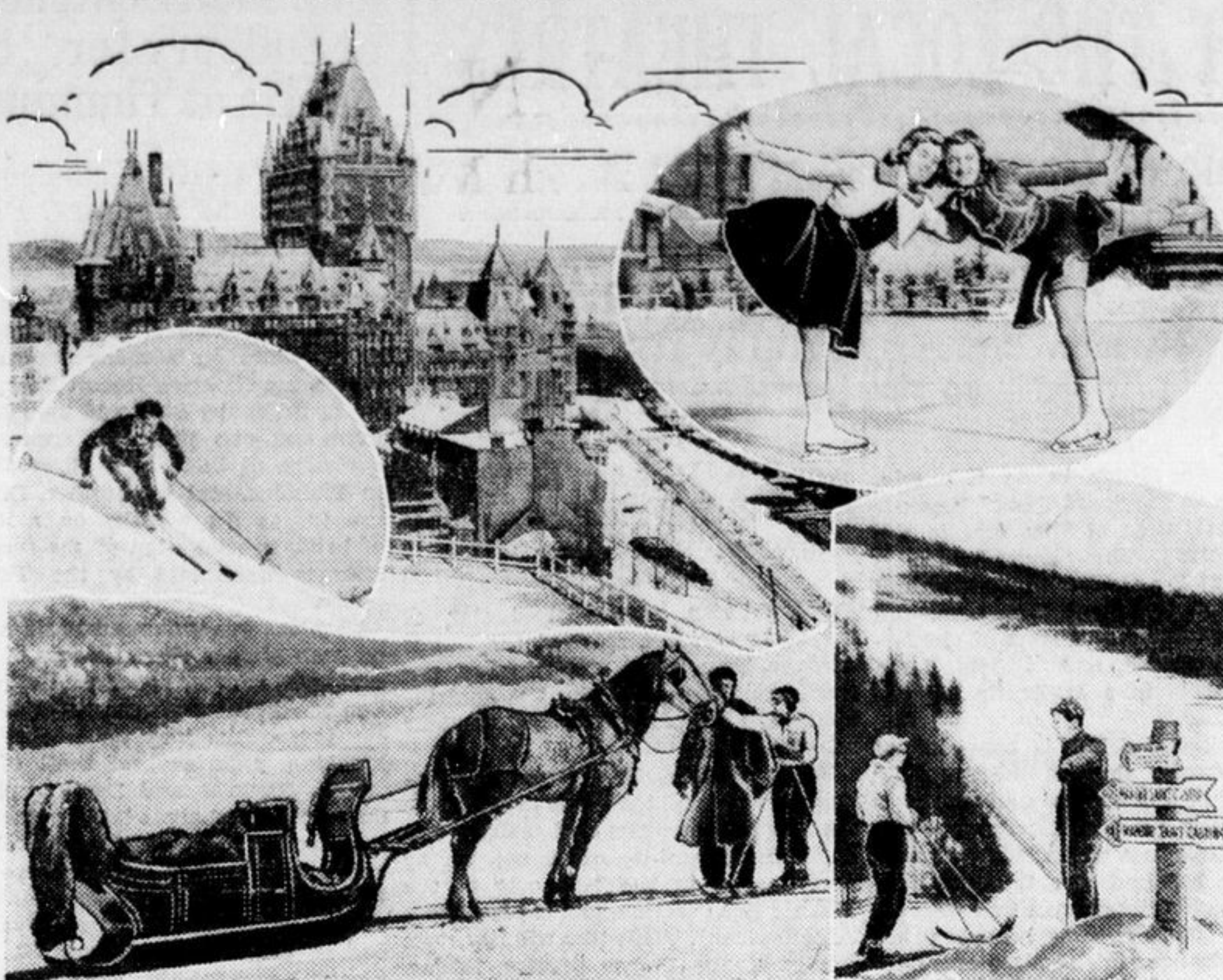
Structural Geology

The Keewatin rocks appear to form part of the southwest limb of a major syncline, which trends northwest-southwest. All observations indicated that the tops of the flows face northeast, although minor folds do occur. The schistosity developed in these rocks strikes N. 65 degrees—85 degrees W., and is fairly consistent throughout the area.

Economic Geology

Since 1910, intensive prospecting, particularly in the southern part of the area, has resulted in the discovery of gold and copper. Diamond-drilling programmes have been instituted at four localities in Robb township. During 1927-28 underground operations were carried on at the copper property of Kam Kotia Porcupine Mines, Limited.

WINTER SPORTS IN OLD-WORLD SETTING



Old Quebec City, whose four centuries of history have made it a favorite stopping place for summer tourists, has achieved equal prestige with the winter visitor in less than half a decade! The secret of this short cut to popularity lies in the sweeping growth of the ski habit, Quebec's glorious winter climate, its facilities for winter sports, and the snow-clad hills of Lac Beauport, 70 miles distant.

This year, with increased numbers of Canadians and Americans pointing their ski tips toward Quebec and Lac Beauport, the highlights of the Chateau Frontenac's gay winter sports season promise to shine more brightly

than ever. Headquarters for the famous Ski Hawk School, and its equally famous instructor, Fritz Loosli, the popular Canadian Pacific hostelry will feature a gay programme of skating, hockey, curling, tobogganing, ski-joring, sleigh-driving, and ski-ing on the historic Plains of Abraham. The annual Dog Derby is scheduled for the third week in February.

Connected by regular bus service from the Chateau Frontenac, Lac Beauport is a model ski development. It possesses a handsome chalet, thrilling downhill runs, slalom courses and jumps of professional calibre. Mont Saint Casin, with twin slalom runs 200 feet long, 100

to 300 feet wide, and served by a ski-tow, is a rendez-vous for beginners and experts alike, while its neighboring Mont Tourbillon is reserved for the more seasoned ski artist. Here is located a professional ski jump, a downhill run of 4,000 feet and a 1,000-foot slalom run. Lac Beauport is also home of the scenic Sky Line Trail. Ideal weather and snow conditions are the main assets of the Lac Beauport snow-bowl. Deep, dry powder-snow offers the most favorable of ski conditions throughout the winter, snow depths registering as much as six feet, and providing good ski-ing from December (ill April and sometimes early May.

ed, in Robb township. Several electrical surveys have been made in the vicinity of this property.

GOLD—Jamieson Claims

On the first Jamieson group, which consists of seven claims half a mile southeast of Kamiskotia lake, extensive stripping and trenching has uncovered numerous quartz stringers in or associated with very irregular aplite dikes in gabbro. The gabbro is highly carbonatized near the aplite dikes. The quartz stringers contain native gold, pyrite, and chalcopyrite. Since the original discovery in 1913, a great deal of work has been done, including the sinking of three prospect shafts and a little diamond-drilling, but a workable ore deposit has not yet been developed.

On the second group, which consists of 11 claims in the southwest corner of Jamieson township and two adjoining claims in Robb township, extensive stripping and trenching have uncovered a variety of veins in greenstone and felsite or aplite dikes. Low grade values are reported from a northeastward striking vein of quartz and sphalerite containing a little chalcopyrite and galena. This vein reaches a width of 6 feet in one place and has been traced for approximately 1,500 feet along the strike. Some 500 feet northwest of this vein another vein of similar character occurs partly in a felsite dike and partly on its contact with greenstone. Several smaller veins containing sphalerite and galena also occur near by. In the northwestern part of the group gold values have been reported from quartz stringers in highly carbonatized greenstone and felsite mineralized with pyrite. About a quarter of a mile north of this showing low gold values are reported from quartz stringers in an aplite dike in gabbro.

Gold has also been reported from a quartz vein in rhyolite near the 15-mile post on the Robb-Turnbull township boundary.

Hill-Hagquist Claims

On the Hill-Hagquist claims gold has been reported to occur in small quartz stringers and in minute fractures in granite half a mile south of Kamiskotia lake. Several prospect pits and trenches have been dug, and a little diamond-drilling has been done. Extensive sampling by the Homestake Company of South Dakota and later by Hollinger Consolidated Gold Mines, Limited, has failed to indicate a mineable ore body.

Other Occurrences

Gold has been reported to occur in a large mass of quartz float near the 17 mile post on the Robb-Turnbull township boundary. Several attempts to trace the boulder to its source have been unsuccessful.

Low gold values have been reported from a quartz vein containing pyrrhotite and a little chalcopyrite in gabbro, 1 mile west of Kamiskotia lake.

Copper Kam Kotia Porcupine Mines Limited

One mile northwest of Kamiskotia lake in Robb township near the Jamieson township boundary, diamond-drilling and underground exploration drilling by Hollinger Consolidated Gold Mines, Limited in the years 1926-28, outlined two replacement bodies of massive sulphides. The ore is hard, siliceous, and fine grained. Chalcopyrite, pyrite, pyrrhotite, and sphalerite are the chief sulphides present. At the time of operations ceased in 1928, about 2,000,000 tons of ore with a grade of 1 per cent copper and 1.4 per cent zinc are reported to have been blocked out in the north ore body, and 750,000 tons of 1.6 per cent copper and 0.5 per cent zinc in the south ore body. The property now belongs to Kam Kotia Porcupine Mines, Limited.

Other Occurrences

Chalcopyrite is a common constituent of quartz veins throughout the area. It

Suggesting Canadian Foods to Choose From For the Christmas Menu

Much Thought May be Given to the Christmas Dinner, but Breakfast and Lunch Are Also Important. Also Other Holiday Menus Besides Christmas are Worth Notice.

Interest and attention are naturally focused on Christmas Day on the dinner, but breakfast and lunch or supper are also served and require some planning and preparation. The Consumer Section, Marketing Service, Dominion Canadian foods to serve for Christmas breakfast, lunch and dinner and menus for use on the special occasion.

For Breakfast, Choose from:

Tomato juice grape juice, apple juice all well chilled, or baked or glazed apples or apple sauce (not too sweet). One of the wheat or oat cereals, ham, bacon, sausages, or kidney, broiled, served alone or combined with eggs, any style — poached, scrambled, omelets, etc.

Toast or muffins, made from white or whole wheat flour.

Honey or jam conserve or jelly (the family favourites).

For Lunch or Supper, Choose from:

Fresh vegetables such as cabbage,

is often associated with pyrrhotite, probably indicating high-temperature formation. Chalcopyrite and pyrrhotite occur in a narrow band of iron formation, in the southwest corner of Loveland township.

Nickel

A large mass of float consisting chiefly of pyrrhotite and chalcopyrite occurs about 2 1/2 miles north of the south boundary and three-quarters of a mile east of the west boundary of Loveland township. It is reported to contain 1.5 per cent nickel. There is no indication that this boulder might have originated in this area.

Possibilities of the Area

Prospecting activity up to the present has shown that gold and particularly copper are of widespread occurrence in the area, but none of the deposits has so far proved to be of economic importance. The only possibility of further discoveries appears to lie in extending explorations into the drift-covered areas in the vicinity of the occurrences known at present.

Tenders for Shaft Sinking

Tenders for shaft sinking at the Acordia Porcupine Gold Mines Limited, Deloro Township, Porcupine Mining Division.

Tenders wanted for two compartment shaft, size seven by eleven in the clear, depth two hundred and fifty feet. Also fifty feet crosscutting at two-twenty-five level and one thousand feet drifting. Also raise two hundred and seventy-five feet, four by six.

Information re plant and conditions on request.

Address all tenders or enquiries to Acordia Porcupine Gold Mines Limited, care of Hamlin B. Hatch, 3 O'Hearn Building Timmins, Ontario.



moulded cream desserts.
Bread, rolls or melba toast.
Menus
The following are two sets of menus for breakfast, lunch and dinner:—

Breakfast
Tomato juice
Farina (wheatlets) with cream
Scrambled eggs with bacon
Toast
Cherry Jam
Beverage

Lunch
Corn Chowder
Pear and Cheese Salad
Bread and Butter
Christmas Cookies
Beverage

Dinner
Cranberry and Apple Juice Cocktail
Roast Turkey—Stuffed
Giblet Gravy
Mashed Potatoes
Creamed Onions

Glazed Beets
Relishes
Steamed Carrot Pudding with Butter Sauce
Beverage

Breakfast
Glazed Apples
Broiled Ham
Muffins
Jelly
Beverage

Lunch
Jellied Tomato Salad
Cheese Sandwiches
Canned Fruit
Sponge Cake
Beverage

Dinner
Celery and Carrot Sticks
Consomme
Roast Chicken
Mashed Potatoes
Butter Squash or Turnips
Pears and diced Beets
Pears and cottage cheese salad
Ice cream
Assorted small cakes
Beverage

FOLLOWING MARY
Mr. White: "Can you tell me who succeeded Edward VI?"
Pupil: "Mary."
"And who followed Mary?"
"Her little lamb."
—Exchange

Call for Tenders For 250-ft. Shaft at Acordia Mines

Development Programme Also Calls for 1,000 Feet of drifting.

An official announcement was made here to-day, calling for tenders for shaft sinking on the Acordia Porcupine Gold Mines property in Deloro Township. The company's ground consists of fourteen patented claims, formerly known as the Concordia Porcupine Mines. The previous operators sunk a shaft to 160 feet, with some lateral work at the 125-foot level.

The new shaft, for which tenders are being called, will be sunk to a depth of 250 feet and be of two-compartment size. Additional work includes fifty feet of crosscutting, one thousand feet of drifting and a raise, two hundred and seventy-five feet in height. Hamlin B. Hatch, of Timmins, is the consulting engineer of the property.

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