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DETAILS ABOUT ABITIBI CANYON POWER PROJECT

There Will be 325,000 h.p. Developed. Drainage Area Back of Dam is 9,000 Square Miles. Other Figures Showing Extent of Work.

Among those taking in the excursion to the Abitibi Canyon on October 10th when the members of the Cochrane District Teachers' Institute were the guests of the Dominion Construction Company, was the South Porcupine representative of The Advance, Mrs. F. J. Hamilton, who has sent the following interesting and informative account of the trip:—

South Porcupine, Oct. 20th, 1930. Special to The Advance.

Those from here who enjoyed the trip to Abitibi Canyon on Friday last are loud in their praises of the hospitality and courtesies shown by the construction companies there. A special train left Cochrane at 8 a.m., reaching a point above the Canyon about 11 a.m. The party of nearly two hundred walked down the extra mile of decline to the camp and were met by guides appointed to take them to the various points of interest on the west side of the Canyon. The sound of the hammer heard everywhere. Several tents still house some of the men but soon all are expected to be in proper abode for the winter. Comfortable looking residences are being built for the married men. The excavation work is already started for the school.

At twelve the teachers and other visitors were guests of the company at one of the best camp meals it was ever our pleasure to taste, and we have eaten many. Guides again took the various parties to different points of the workings, the chief interest seeming to centre around the point where the dam is to be constructed. Jokes, repartee, questions, made the trip a jolly affair.

Climbing down a narrow ladder over the edge of the rock we heard one admonishing "Don't laugh, there's not room for a giggle here." Quickly came back the response, "But there's sure plenty of wiggle." Those who attempted the climb to the pinnacle of the hill across the cabled bridge and 385 above the river were rewarded by a view they will never forget—the beautiful colourings of the country for miles around, the busy hive of industry below.

Among the facts we gleaned of this great enterprise were the following in regard to the Abitibi Canyon hydro electric development:

The owners are the Ontario Power Service Corporation Limited. The general contractors are the Dominion Construction Company Ltd., and the location is on the Abitibi river, 70 miles north of Cochrane by the T. & N. O. Railway.

The installed horse power will be five 65,000 h.p. turbines, that is 325,000 h.p. The drainage area back of the dam will 9,000 square miles.

The concrete section of the dam will be about 1,010 feet long and the maximum height in the gorge about 250 feet. At this point the base of the dam will be about 200 feet in width. On the east end of the dam there will be provided six 50 feet by 30 feet stoney regulating gates for taking care of flood flows in the river. These six gates will pass approximately 200,000 c.f. A high water channel will be excavated in the east side of the gorge from the back of the stoney gates by the pool at the head of Eleanor Rapids. On the west side of this channel a concrete wall will be constructed for the entire length to prevent water discharges through the gates overflowing into the gorge below the dam. On both ends of the concrete dam there will be earth embankment dams.

The power house will be located in the gorge just below and adjoining the dam. In the power house will be installed the five turbines (65,000 h.p.) directly connected to the electrical generators.

For easy access to the power house there will be installed from the top of the dam two electric elevators, one for passengers and one for freight. To utilize the drop in the gorge from the power house site to the foot of the Canyon, a tail race will be excavated in the river bottom. The excavation will be in the neighbourhood of 135,000 cubic yards of rock.

Two double-circuit, steel-towered transmission lines will be constructed from the plant to Hunt, a distance of some 60 odd miles. The transmitting voltage will be 132,000 volts. At Hunt, eventually 100,000 h.p. will go to the Hydro Electric Power Company and will be transmitted by them to Sudbury for distribution. The balance of the power will go to Iroquois Falls and Smooth Rock Falls and be consumed by the Abitibi Power and Paper Company Limited, at these points.

Dewatering the river is to be done to build the dam and power house. Two 28 feet, finished inside diameter tunnels will be driven on the present west side of the gorge. The floor of these two will be a little below the present water level. In order to speed up the driving of the tunnel a shaft is being sunk at about the midway point. When the shaft has reached the tunnel levels, a drift will be run across the both tunnels. This will allow working on four faces for each. The bulk of the excavation from the tunnel will be hoisted through the shaft. When the tunnels have been driven, concrete plugs will be placed in the cross drift tunnel; then the shaft will be carried lower to the level of the power house rock elevation and drifted through to the river for hoisting the rock from the power house and dam. Before this is done coffer dams will first be placed in the river just below the south portals of the unwatering tunnels and one just

ANNUAL REPORT OF HOWEY CONSIDERED FAVOURABLE

Costs Reduced. Grade: Show Gradual Increase with Higher Tonnage. According to Annual Report and Interim Report.

There being so many here interested in the Red Lake area in one way or another, and the success of the Howe Gold Mines being of such importance to the whole attitude assumed towards the whole Red Lake country, there is very naturally much attention given by readers of The Advance to all particulars in reference to the Howe mine. The progress of the Howe will mean the progress of the whole Red Lake area as it is the one producing mine in that country to-day.

"Net profits to date have been small, but show gradual increase, with increased tonnage," states H. G. Young, manager, in the annual report for the year 1929 and summary of operations to Aug. 31, 1930, of the Howe Gold Mines Limited. "Grade of ore has been fairly well established. Operating costs before depreciation and taxation," considering our location, have been favourable. Ore reserves are splendid and adequate. With these factors determined and sound, it is established that net profits will be satisfactory and in proportion to the volume of ore treated."

A careful consideration of the reports of Mine Manager Young and the Huronian Mining and Finance Company, according to the President, R. T. Birks, discloses the following salient facts: (1) A plant and equipment have been carefully planned with a view to economic and efficient operations. (2) While the bullion recovered has almost met the operating expenses, the margin of profit must be secured, either by increased returns, as confidently anticipated by Mr. Young, or by hand-sorting, as advocated by the consultants. (3) Both reports are unanimous that there are excellent chances of increasing the ore reserves laterally and below the 1,000-foot level."

Mr. Birks points out that, but for the repeated financial support furnished by the Vice-President, W. S. Cherry, and his associates, the mine would now be closed down. He states that the present holders of the loan are prepared to postpone payment until such time as the mine reaches the stage where its earning capacity is definitely established. This should be known before the end of the present calendar year, and it is proposed to call a shareholders' meeting at that time, when detailed financial programme will be submitted for consideration.

The mill started production on April 2, and for the four months of production ending the fiscal year, there was total ore production valued at \$164,341. Against this all expenditures for the same period amounted to \$184,927, leaving an operating loss for the four months (subject to depreciation on buildings, machinery, equipment, etc.) of \$20,586.

Mine Manager H. G. Young, in his detailed report, states gross values based on bullion recovery plus values held up in solution and ore in treatment gave an average value of millheads for 56,529 tons treated of \$4.43 per ton. In this tonnage were 6,988 tons of dump ore and 4,000 tons development ore. After deducting the values of these, the 46,441 tons treated from stoney give an average gold content of \$4.73 per ton. Operating costs per ton milled have dropped in proportion to tonnage increase and in August were \$3.24.

The average grade of ore hoisted from above the 500-level was \$3.99 per ton and from below that level \$4.88 per ton. To date the ore from the sill and its development has constituted 85 per cent. of mill feed, and the length of silling out accomplished represents 50 per cent. of the developed ore of the mine. The average width of the sill is 35.6 feet, which is about 18 feet wider than development indicated. The extra has averaged \$3 per ton, which is too low, and it is admitted that sill development has been carried too wide, with consequently too much dilution. This is being corrected by starting shrinkage stoney above

the north portals. The upper coffer will turn the water through the tunnels and the lower will permit the area between the two coffer dams to be pumped out, so that the power house and dam can be constructed.

After this construction, the two tunnels will be closed off by large steel gates and the water then will be turned through the stoney sluice gates and the high water channel. When this has been done a coffer dam will be built in the river at the foot of the gorge and then the balance of the tail race rock excavation will be taken out.

For construction purposes a double steel track bridge will be erected across the Canyon, just below the dam. This bridge will be used as a means to get the construction plant across the river, handling rock excavation sides of the gorge and placing the concrete. The base of rail of the bridge will be about the top of the dam level.

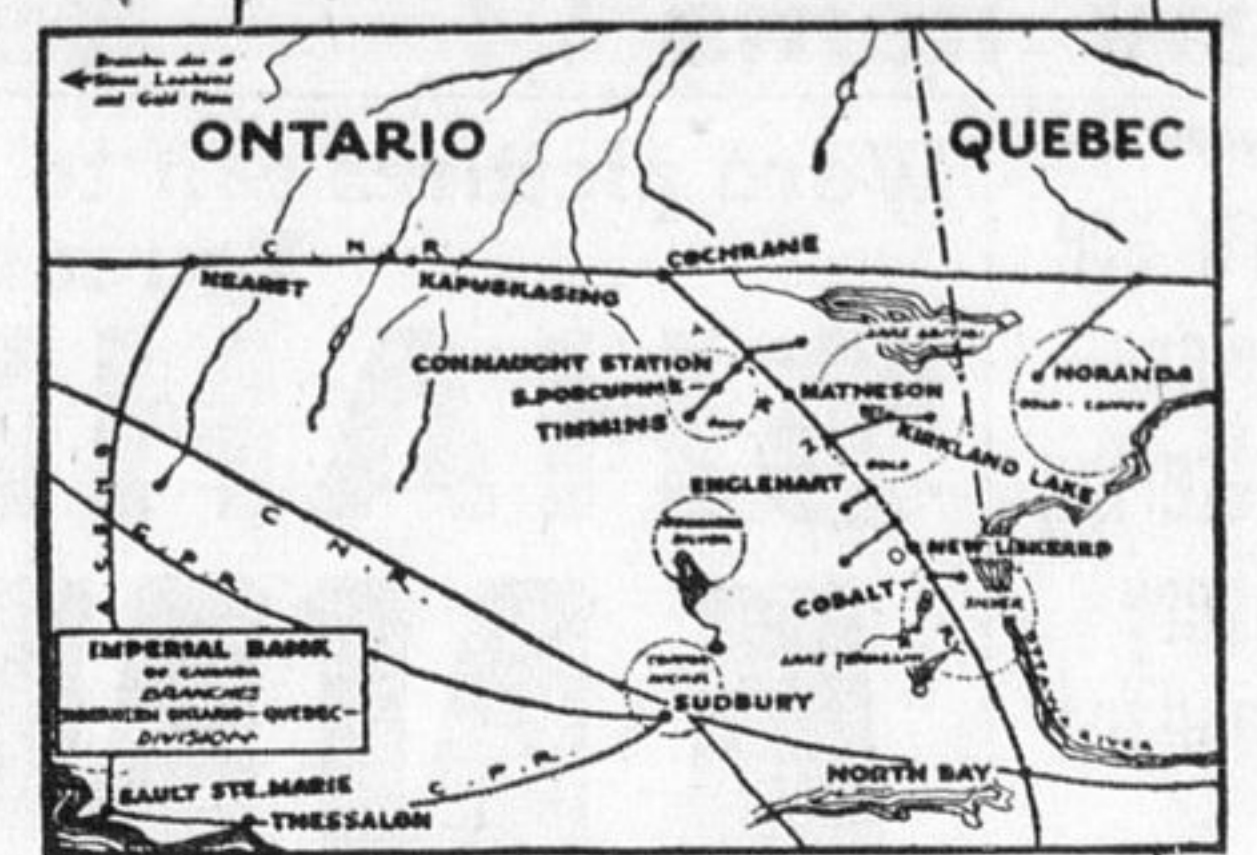
The crusher plant, sand storage and concrete plant will be located at west end of the big railway cut. A railway spur takes off about 1,000 feet back from the west end of the big cut and runs to the rim of the Canyon on a 5 p.c. grade. This track will be used for construction purposes and will also later form part of the permanent layout.

For construction power, a temporary transmission line has been built from Island Falls to the job, capable of delivering 5,000 electrical h.p.

Haileybury Plans for New Tourist Camp There

The Haileyburian last week says:—"Haileybury's new tourist camp will be completed and ready for the traffic next summer, according to Councillor A. J. Carson, who for the past month or two has been working on the project. He has now reached the stage where a plan of the location has been prepared and, as the area at the north side of Browning Street, east of Ferguson avenue has been cleared of nearly all the material and machines formerly stored there, some work on the preparation of the ground will be done this fall. Mr. Carson's plan shows a row of small cabins at the north side of the area, with provision for quite a number of tents. There will be a good sized community kitchen located in the centre, with lavatories and other necessary adjuncts of a camp placed in suitable locations. The plot of ground to be devoted to the purpose at the start has a frontage of about 400 feet and is 130 feet in depth. In conjunction with the establishment of the tourist camp improvements are being made to the piece of beach at the north of the wharf. Here the large stones and driftwood are being removed and it is the intention to extend this beyond the pumping station as well, where it will be immediately to the east of the camp ground. Large quantities of gravel will be required for this latter place, Mr. Carson says, but the whole project is to be carried out. Last week Mr. Carson made a tour through Southern Ontario during which he visited a large number of tourist camps, on a search for the most suitable type of cabin. He has secured specifications of one type which can be erected reasonably well look neat and pleasing and will be practically fire proof, as very little wood is used in the construction. The whole project is one that should be easily carried out and should prove of great benefit in attracting the tourist trade. The improvements to the beach alone will be something well while for the people of Haileybury, as well as for summer visitors and the scheme is one that will have the support of the citizens in general."

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When you tell me that cream soups have a prominent place in your meal planning, I know that you have both a sense of artistry in your menus and a firm knowledge of food values.



is cream. It is whole milk, evaporated to double creamness. But you can dilute it to any degree desired, and the last drop out of the can will still be as creamy as the first—because the cream is broken up—"homogenized" into very tiny particles to keep it distributed throughout the milk.

And, if you tell me that you serve them, not before a heavy dinner, but as luncheon and supper dishes, my regard for your skill is still greater.

This breaking up of the cream particles does a very remarkable thing to dishes made with Carnation Milk—makes ice cream velvety, candy silky-smooth, custards and cakes and sauces wonderfully fine-textured.

For cream soups serve a twofold purpose—they stimulate appetite, and they satisfy it. The warmth of the soup starts the meal off well; the milk which is its base is soothing. And the vegetable puree with which it is combined adds to the rich food values present in the milk the important minerals which are necessary to a balanced diet. Cream soup is really a meal in itself.

Even the best of bottled milk cannot equal these results. Yet Carnation Milk is most economical, saving in butter and cream.

All the more important, then, that it should be a good soup. And, with the cooking knowledge at your disposal today, there is really no excuse for having anything but a marvelously delicious cream soup.

Why not try Carnation Milk and find out for yourself how satisfying it is. Write for the Carnation Cook Book. It is free. Address Carnation Co., Limited, Aylmer, Ont.

If you will follow one simple rule, I can promise that your cream soups will always be rich and creamy, of good body and exceptionally smooth, velvety texture. That rule is to make them with Carnation Milk.

Carnation Cream of Pea Soup—1 No. 2 can peas, 1 slice onion, 1 1/2 tsp. sugar, 1 1/2 tsp. salt, 1 tsp. pepper, 2 tbsp. butter, 2 tbsp. flour, 1 cup Carnation Milk, 1 cup water. Drain and measure liquid from peas and add enough water to make 2 cups of liquid.

Why Carnation Milk makes the best cream soups

One of the reasons that Carnation Milk makes such delicious cream soups is that it is doubly rich in cream. Don't make the mistake of thinking, as many women do, that Carnation Milk

is difficult to assess true costs during the early months of operating a property with new equipment both in mine and mill, but no profits have so far been made," continues the Huronian Mining Company's report. "It is also difficult to forecast future operating costs, and the best chance of producing a favourable balance now appears to lie in the possibility of increasing the grade of the ore by surface sorting.

"The chances of the ore zone extending below the 1,000-foot horizon are excellent. The general grade of ores found within the zone from the first to the 1,000-foot level, with regional exceptions, varies little, and similar grades of ore may be expected below. If sorting tests show that the ores can be profitably treated after sorting, development at depth, to at least 1,500 feet, should be started from the eastern extension of the body from the 1,000-foot level.

"It is our opinion that the physical condition of the mining and milling equipment, which has a capacity of over 500 tons per day, is conducive to efficient and low cost operation.

The balance sheet, dated July 31, 1930, shows current assets of \$70,613, including cash, \$13,149; bullion, \$54,904, and accounts and interest receivable, \$2,565. Current liabilities include: Accounts, wages payable, \$40,741; bank loan (secured), \$40,000, and loans payable and accrued interest, \$475,534. A total of \$556,324. The sum of \$10,000 is on deposit with Ontario Hydro-Electric Commission Expenditures for buildings, equipment, transmission line, materials and supplies, developed and pre-operating expenses, with deferred charges, total \$2,083,469. Profit and loss account shows an operating loss, subject to depreciation on buildings, machinery, equipment, etc., for the period of \$20,586.

Ottawa Journal:—Evolution still goes on. The men who used to yell out the trains at the railway stations are now radio announcers.

AND REMEMBER



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His disability cheque for \$100 a month comes to him each month.

Two days after he received his policy, Mr. _____ was nearly killed by accident. He had paid only one premium, nevertheless \$100 a month was sent to him all the time that he was disabled, his policy was kept in full force and all premium payments falling due while he was receiving such benefits were waived.

Confederation Life Association, Gentlemen:

I desire to express the heartfelt satisfaction I feel at the service rendered to me. Little did I realize that, two days after receiving the above policies, I would be the victim of such a distressing accident.

To be disabled, so that I was placed in a cast for several months, resembling a man done in marble, totally disabled, with a broken vertebra.

During my confinement I had much time to think of the wisdom of taking the above policies. That Total Disability cheque of \$100 monthly came to me as with a fragrance from heaven. To think, also, that my \$10,000 insurance was in full force and effect, gave me great peace of mind.

May I again thank you, Confederation Life Association, for your interest, courtesy and promptness in this matter.

Yours very sincerely,

The New Confederation Series of Policies, with Double Indemnity Accident and Total Disability Benefits, and participating in profits, provide the most economical form of Life Insurance. We strongly urge you to write for particulars and learn how desirable these policies are. Use the coupon for convenience.

Confederation Life Association

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