Big Lignite Deposits in North May Have Value

Preliminary Testing of Large Area Yields Estimate of Big Tonnage but Economic Significance is Not Determined. Several Factors Make Forecasts Risky.

Cochrane and authoritative informa- fuel reserve. tion about these deposits is eagerly sought. This is particularly true in regard to the matter in view of the fact ing and are generally equipped with that on the successful development of furnaces designed to burn bituminous the lignite north of Cochrans may de- coal in pulverized form. During the pend the fate of the railway extension last few years there has been an innorth of Cochrane and the immediate creasing tendency, however, to install prospects of the country served. The electric power. The condition has following article from the annual num- markedly reduced, at least temporarily ber of The Northern Miner will be wel- the consumption of coal, and it is im-

Extensive Ontario Lignite Deposits

was made in the Legislative Assembly ticles and thus allow more material to to certain negotiations with private in- pass through the pulverizer. The high terests which sought to develop these moisture content is not a hindrance to lignite measures. The public announce- successful pulverization, and in pracment that the province would itself tice it could be reduced by using preundertake further work on this pro- heated air in the mills. The market for vincially owned crown coal occurrence bituminous coal has shrunk in recent has aroused considerable interest.

"Starting in 1926 the Ontario govern- 000 tons in 1931. The Foundation rement investigated the Onkawana de- commends the use of about 200 tons of posits, the existence of which was Fleissner lignite for trials at the paper known for several years. The area was mills. If the 1931 tonnage could be rereserved to the Crown, surveyed, dia- placed by Fleissner lignite, it would mond drilled and tested underground create an annual market for 75,000 to by two shafts. The work eventually 80,000 tons. resulted in a tentative estimate of 100,-000,000 tons of lignite.

of the material by the Ontario Re- and used in reverberatory furnaces, when the dagger bill flashes out search Foundation. Parcels of lignite which must maintain very high temwere shipped to Germany and Aus- peratures. The company buys Nova tria for processing by different methods Scotia rather than American coal beand a mass of data was assembled on cause of its higher heat value and ease treatments, mining and transportation of grinding. Their concern for efficiencosts and a possible market. Several cy in the attainment of the desired of these factors are dealt with in the temperatures is shown by their decision they can be. Department of Mines publication, "A Lignite."

Details of Research

"Near Blacksmith Rapids on the Abitibi river, 60 miles south of Moosonee a large body of lignite exists. It lies at an average depth of 65 feet below the surface and is covered with boulder clay, cretaceous clay, and sand, The deposit occurs in two seams and covers an area of approximately six square miles. The lignite in its raw state contains 50 per cent. water, and in this condition is of no economic importance at the present time.

"Good second-hand equipment can be purchased in Canada at the present time for strip-mining operations at the deposit. No unusual mining problems of a technical character can be foreseen, and three independent authorities have agreed in substance as to the methods and cost of mining raw lignite. The mining costs contained in this report are based on the recommendations able regarding the possibility of using enjoy conspicuous security of tenure of T. H. Hogg, and he estimates the cost the screw-type with lignite products. of raw lignite to be 88 cents per ton on The present consumption of coal by the the basis of mining 300,000 tons per mines is approximately 25,000 tons per annum.

"Several processes have been tested on a plant scale with a view to obtaining lignite products that could be transported and used by railways, industrial consumers, and householders. 'Two of these processes, the Fleissner process and flue-gas drying, have been investivarious centres in Northern Ontario.

containing 20 per cent. moisture and 9,000 B.t.u. per pound. It can be trans- firepot has been designed to take dense stored without danger from spontane- holder must find room in the furnace ous combustion This fuel could be at night for an amount of lignite equal delivered to the T. & N. N. Railway at to two and one-half times the volume Onakawana for \$3.30 per ton, and at of anthracite normally used to keep this price could compete with imported the house warm until the morning. American coal. Certain technical un- In spite of the knowledge of this concertainties exist, however, with regard dition through experience in Western to its use in locomotives. There are no Canada, the manufacturers of domestic serious technical problems associated furnaces are not supplying specially dewith the use of Fleissner lignite in in- signed lignite furnaces. Certainly they dustry, but unless the price to the consumer can be reduced by (1) an in- tario, and it is doubtful whether they crease in total production, (2) lower would be installed even to take advanfreight rates, or (3) economies in pro- tage of a cheaper fuel. By-product coke, duction costs, Fleissner lignite cannot which suffers from the same disadvancompete in the industrial market. tage, has not replaced more expensive Greater success can be expected in the fuels. The domestic market is comparadomestic field if successful trials in tively a small part of the market. It standard equipment are conducted.

cannot recommend any immediate com- ment, to be followed by a carefully mercial development of the lignite de- planned educational campaign posit. On the basis of the evidence submitted in this report, they feel justified in recommending a further excomotives, and in industrial and do- fuel-burning equipment." mestic furnaces. The results from these tests, in conjunction with the material embodied in this report, will that Galt is to have a nudist colony permit a final conclusion as to the pos- this summer but many residents are sibilities of commercial development in shocked at the bare thought of such a the near future, and will in any case thing.

All in the North are interested at establish the value of this deposit to the present in the lignite deposits north of province of Ontario as a contingency

Potential Market "Paper mills use fuel for steam-rais

possible to predict the future. From a purely technical point of view. Fleissner lignite should create few prob-"In the current year there has been lems. The high content of volatile some discussion concerning Ontario's matter and the tendency of the partilignite deposits on the Onakawana cles to disintegrate and burn rapidly River, 60 miles south of Moosonee on favour the possibility of maintaining the T. & N. O. Railway extension from the capacity of installed equipment. It Cochrane to James Bay. Reference should be possible to use coarser paryears from 125,000 tons in 1929 to 60,

"The smelter at Noranda Mines uses "There followed a thorough testing Scotia bituminous coal. It is pulverized

following paragraphs, taken from the to dry the coal to a moisture content of below one per cent. before grinding. Technical Investigation of Ontario Provided technical efficiency can be maintained, the company would welcome any reduction in fuel costs and would co-operate in any attempt to bring this about. It is very doubtful Hewart, lord chief justice, and J. H. whether Fleissner lignite could be used Thomas, dominions' secretary, marked in these furnaces. If the moisture con- the annual Dominion Day dinner at tent were still further reduced from 20 London, England, on Monday. G. Howto 2 per cent., there would be a stronger and Ferguson, Canadian high commispossibility. The company is willing to sioner in London, presided. co-operate by carrying out trials in a

> proposed initial output. "The gold mines are consumers of bituminous coal for steam-raising, ed by 1,500 persons. mostly for heating purposes. The coal

Domestic Use

"The facts regarding the domestic market are difficult to secure. In large buildings bituminous coal is burned, using industrial equipment. During recent years there has undoubtedly been gated to the point of estimating the homes with a corresponding reduction cost of the products to consumers in in the use of coal. There is still a moderate use of imported anthracite, "Fleissner lignite is an excellent fuel and on a price basis Fleissner lignite could compete. The domestic furnace ported without excessive breakage fuels such as anthracite. If the change losses, and when necessary it can be is made to Fleissner lignite, a houseare not in the homes in Northern Onis at present occupied by several fuels "The Ontario Research Foundation and a great variety of types of equip-

"On purely technical grounds it has been shown that there can be no assured market for processed lignite in penditure of \$60,000 to mine and pro- Northern Ontario until successful comcess sufficient lignite to test adequately mercial trials have been run using repthe burning of lignite products in lo- resentative material in the existing

Detroit Free Press:-It is rumored

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Do Birds Bite When Their Nests or Young Disturbed?

(Kerry Wood in Edmonton Journal) At this season of hatching birds many curious humans who "want to see" have been frightened by the parent birds darting at their heads and threatening to peck at the eyes. Often the question is asked, "Will birds ac-

ually attack humans?' It might be good strategy to say times violate the secret of a nest site so clumsily and often that the birds forsake it. But the truth is, it is rather rare that a bird, large or small, will attack a human in defence of the nest

There is one bird who provides a consistent exception to this rule, the female Great Horned Owl, in defence of her owlets, will not hesitate to use her needle-sharp talons on the head of any human who ventures to owl is a very fierce old lady at such times and woodsmen who have been

magpies, ducks and doves-will meekly fly off and do nothing at all. 90,000 tons of the best quality Nova Great Blue Heron will not fly, but will sit still until a man climbs into yiew, straight for the eyes.

that fragment of dynamite, the hummingbird? You'll be really alarmed and prevents the parts of the lung af- up into the Adirondacks and after fishwhen these tom-thumbs of birdland fected from being used. It is usually ing and lying about in the bright suntake after you and reveal how gigantic

Battle of Wits at London Dominion Day Banquet

A sparkling duel of wit between Lord

Other ceremonies in observance of small furnace fired with pulverized fuel Dominion Day were a service in the if 50 tons of Fleissner lignite could be morning at the famous church of St. supplied. The possible market, 140,000 Mary le Bow in Cheapside, conducted tons per annum, is larger than the by Rev. Gordon Ponsonby, and a reception by Mr. and Mrs. Ferguson at Canada House in the afternoon, attend-

Proposing the toast to the British is of American origin and is supplied Empire, Lord Hewart first made an eloto the fires by underfeed screw stokers quent reference to what Pericles said of the "Iron Fireman" type. In Western about the Athenian empire, and then Canada lignite has been used success- went on to discuss the merits of "the fully in underfeed stokers of the plun- Rt. Hon. James Henry Thomas," who ger type, but no information is avail- was to respond and who "seemed to

He was known as Jim Thomas everywhere, declared the lord chief justice, and a reasonable jury would regard that as a strong piece of evidence of

"How many other members of the present powerful government are spoken to like that?" asked Lord Hewart, "Did you ever hear anyone speak of Stan Baldwin? Did anyone ever refer to the chancellor of the exchequer as Nev Chamberlain?

"Europe is full of the praises of Sir John Simon, but was he ever known in the smoke room of the Commons as Jack Simon and did anyone ever venture to refer to Tony Eden? The whole world rejoices that Lord Hailsham has become lord chancellor, but it would be like brawling in church or at least contempt of court if one spoke of him as Duggie Hogg (his name is Douglas

Lord Hewart finally summed up Thomas as one who was "at home equally with prince and peasant, bishop and billiard-marker. The British Empire is unlikely to slip off the rails while Jim Thomas is in charge of the

The laughter was quickly renewed when Thomas, in reply, alluded to Lord Hewart's reference to "Pericoloese"that was how Thomas pronounced it.

"I make a dignified protest on behalf of this company against Gordon Hewart's airy assumption that we know everything about classical history. A lot of people around me have been ask-

ing who Pericolese was," he said. "Gordon," declared Thomas, addressing the Lord Chief Justice, "you may be all right as a judge but you are no good as an after-dinner speaker. My first thought, though, after hearing you is thankfulness that my parents had the foresight to christen

me Jim." Sir Josiah Stamp, distinguished economist, proposing the toast to the Dominion, said he was looking forward to the time when Canada would play a tremendous part in international fin-Standing between the United States dollar and the pound, she would have immense influence.

Alluding to the establishment of central bank in Canada, Sir Josiah said: "Those on this side who know how important a part this organization destined to play hope the Canadian people will give this financial novelty at least the benefit of any doubts they may entertain on the project."

North Bay Nugget:-The mechanical lie detector tells the truth about half the time, according to a U. of M. pro-Why, the thing is almost hu-

Nox-A-Pain Advancement Made in the Study of Silicosis

Lions Club Hear Interesting and Informative Address on Silicosis, with Emphasis on the Progress Made in Preventing and Curing the Disease.

at the Trudeau sanatorium at Saranac hopeless. lake at the beginning of June, was the Patients are able to continue work guest speaker at the Timmins Lions for many years after first contracting Club last Thursday evening. The the disease, and although rest cures and study of silicosis was Dr. Russell's sub- other more recently advanced treatject, and it is one with which he is well ments may aid in recovery, the surest acquainted

done here by Dr. Russell, who is associated with the Workmen's Compensa-

come the central registration point for portant one to industry as a whole. the study of silicosis, Dr. Russell said if plans at present under consideration work out as expected.

Needs Highly Specialized Men

A highly specialized physician is required to diagnose the disease with accuracy, especially in the early stages The examination of X-ray plates possibly the only sure method of determining whether or not a patient i suffering from silicosis, and even then when examination is made by those unfamiliar with the work, diagnosis is apt the later stages of the disease, shadows (which appear white on the negative) of about the size of a buckshot, scattered throughout the lung. These are caused partially by scar tissue and partially by actual silica introduced into the lung by continued breathing of rock dust containing silica particles. In the later stages, calcium, introduced And have you ever been chased by from the blood stream, adds to the contraction caused by the scar tissue! the central part of the lungs that be- light, found himself much improved comes seriously harmed, the extreme It was in this way that the idea of upper and lower parts having much en- sanatoriums found great favour with larged air cells.

From X-ray records in St. Mary's hospital here, taken by Dr. Russell and his assistant in the study of the disease that has affected so many miners, it is possible to study the various stages in detail, and to watch closely the effects of continued work and treat- for children of school age who would ments. From the thousands of films ctherwise not be able to afford them. in the cabinets of the X-ray depart- An average of one pair of glasses a week Josephine Jackson of Toronto, grand ment, plates can be chosen showing is being maintained.

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over their usual

roufes.

job" tests.

Dr. N. H. Russell, one of the two every stage, from the first visible sign Canadians who attended the symposium until those cases which have become

method to cut down the incidence of The Porcupine affords one of the the disease is prevention. Methods of most fertile fields on the continent for prevention have been carefully studied the study of the disease, and the work not only in Canada, but all over the continent. Those who are occupied in the business of sand blasting, or in faction Board, has contributed greatly to tories where silica dust is likely to be medical science's knowledge, not only found, contract silicosis much more of early detection but also of treatment, quickly than miners, so that the study The sanatorium at Saranac is to be- of preventive measures is a most im-

> Use Inhalators Now The use of inhalators by workers is the logical solution to cutting down the incidence of silicosis to the lowest possible point, it is now believed, and at least one iron mine in the United States has now made it compulsory for their miners to wear masks while engaged in their work. It is understood that at least one mine in the Porcupine is seriously considering putting a similar measure into effect.

Dr. Russell's visit to the Trudeau anatorium was made in company with Dr. Riddell of the Department of Health of Ontario. Dr. LeRoy Gardiner, pathologist at the institution, recognized as one of the foremost men on the continent in the study of silicosis, made some very interesting remarks about recent

oldest on the continent and was founded by Dr. Trudeau, who, finding himself suffering from tuberculosis, went medical men in the treatment of tuber-

A worthwhile article on the subject of silicosis will appear in a future issue of The Advance.

The Lions Club in Timmins is continuing its work in providing spectacles "On a Bicycle Built For Three"



With cycling becoming increasingly popular in the Old Country as the weather daily grows warmer, the problem of what to do with Master which the child sits with comfort enjoying the fresh air and countryside A glass windsield protects the child from dust and dirt. The photo is from Inverness, Scotland.

Moose Sing "O Canada" at Dominion Day Function

Delegates to the 47th annual convention of the Loyal Order of Moose at Boston, Mass., on Monday of this week celebrated Dminion Day as the opening sessions got under way.

Two members, William Ramsey of Kirkland Lake, Ont., and Bert Bridgeof "O Canada" while the several thousand delegates stood.

Among the women present were Mrs. | value to those replaced.

Mrs. Mitella of St. Thomas, Ont., president of the Women of Moose Associa-

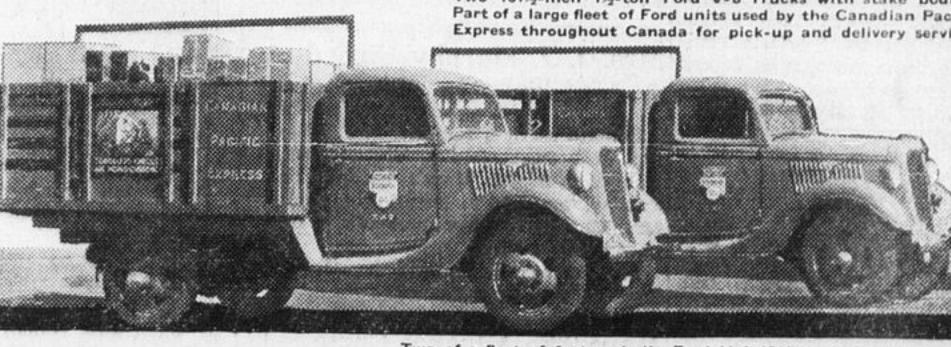
Timmins I.O.D.E. Make Fine Donation to the Shelter

Mrs. Condie, matron at the District Children's Aid Society Shelter, this week received a generous donation from man of Rouyn, Que., led the singing the Timmins Golden Chapter Daughters of the Empire. The gift was a chaque for \$25.00 to be spent for need-A large delegation of Canadian mem- ed linens for the Shelter. When the bers was present, among them several Shelter was opened here eight years prominent in the order, including Nor- ago the Kiwanis provided a notable man G. Heyd of Toronto, regional di- array of the best of linens and wonrector of Canada; Stuart Slater, su- derful service was received from these preme auditor of Canada; Joseph linens. Some replacements are necs-Hackson of Toronto, supreme forum sary and the donation from the I.O. member, and George E. Johns of D.E. will make possible the purchase of linens that will give somewhat similar

regent of the Women of Moose, and Try The Advance Want Advertisements

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