

BELL TELEPHONE

OF CANADA, LIMITED

Rapid Development in Construction of Exchanges and Long Distance Lines in Manitoba

.The above map shows the long distance lines and exchanges of the Bell Felephone Company of Canada in operttion and projected in the province of Manitoba. There are also given some statistics which mark the remarkable development of this system during the past five years.

The Bell Telephone Company of Canada established itself in Manitoba in 1831, buying out a small exchange in Winnipeg, then owned and operated by 1900. In this year the Heli Telephone. Mr. Horace McDougall. Though there Company built a copper metallic line equipment was primitive, and the service not by any means as efficient as the it is to-day, the rate charged was \$50 in this country, the

la Frairie and a year later an exchange connects and consolidates, commerwas put in at Brandon. But in 1884 cially, as well as socially, between 6,000 the company had only 340 subscribers and 7,000 subscribers. The company in Winnipeg, 17 in Portage la Prairie has, within a couple of years, embarkand 51 in Brandon.

the burden until the turning of the offers for this class of service. tide. To the credit of the company, the public do not understand, but which is a serious consideration to the will bear testimony that the service was never allowed to deteriorate be transported in the depressing conditions which, so universally prevailed. The testimony prevailed their confidence but the facts we have stated should not be antirally forgotten.

Farmers' Rural Lines

the public do not understand, but which is a serious consideration to the which is a serious consideration to the minimizing, or more frequently ignored taking from an employed to keep up the continuous similarity as subscriber taking from an employed to keep up the continuous similarity as subscriber taking from an employed to keep up the continuous similarity as subscriber taking from an employed to keep up the continuous our service, and that the service of two copper which say exclusively for his service.

For farmers' telephone lines alone which is a serious consideration to the impressed only by dear which is a serious consideration to the impressed only by dear which is a serious consideration to the impressed only by dear which is a serious consideration to the impressed only by dear which is a serious consideration to the impressed only by dear which as a serious consideration to the impressed only by dear which is a serious consideration to the impressed only by dear which as a serious consideration to the impressed only by dear which is a serious consideration to the impressed only by dear which is a serious consideration to the impressed only by dear which is a serious consideration to the impressed only by dear which is a serious consideration to the impressed only by dear which is a serious consideration to the company. To install a new and larger which serious only in the telephone which company will use this year over six to deploy a thoroughly up-to-date telephone service, and that the company which constant in the intensity service, an exclusively for his service.

For farmers' telephone lines alone the company with following the contract to the contr

First Long Distance Line

The first long distance line, if it may be called such, was the connection, about 20 years ago, of a small exchange in West Selkirk with Winnipeg. But the development of the long distance telephone service of the province-we may say, of the Northwest-began in were but a few subscribers, and the from Winnipeg to Portage la Prairie and, Brandon, Since that time aprung into existence, after manner of doing things tensive and complete system shown

In 1882 the company branched out by in the map above, which comprises toestablishing an exchange at Portage day nearly 2,000 miles of wire and ed in rural telephone service. We have With the collapse of the boom, the not been able to show these line on our telephone business suffered with every map, but hundreds of farmers have alother interest. But the company never ready availed themselves of the adlost faith in the country and carried mirable facilities which the company pect.

at Deloraine, Killarney, Crystal City, Pilot Mound, Manitou, Morden, Emerson, Carman, Souris, Brandon, Virden, Minnedosa, Neepawa, Carberry, Mc-Gregor and other places.

At the present rate of development it will not be long before every enterprising farmer will have his telephone connecting with the merchant, the best of all, with his neighbors. The Isolation of farm life is already a thing of the past, even in this country of. ample acres.

Winnipeg Exchange

Winnipeg has a telephone exchange which for modern efficiency is not surpassed by anything known to science. An evidence of the manner in which the growth of this city surpasses all expectations and calculations is seen in the fact that the switchboard, at times and the company has built two ing the impractical, and keeping the ferring a favor on its patrons and the subscriber in hanging up his telephone company seeing this has been prepar-

There is one feature of the problem those who remember those dark days Farmers' Rural Lines which is a serious consideration to the

New Switchboard to Cost \$180,000

The new switchboard to be installed will cost over \$180,000. In installing a new switchboard every subscriber's grocer, the doctor, the veterinary, and, line must be connected with the new switch and the whole system thoroughly tested and tried before the lines are disconnected from the existing board in the old building. Then the latter, which cost many thousands of dollars only four years ago, will become practically junk. This is by no telephone development. In Winnipeg, during a period of sixteen years, the central office apparatus, style of teles standardizing equipment, keeping pace phone, system of wire construction, etc., has been entirely changed four devices, adopting the practical, rejectpresent in use, which was designed to new buildings, or in other words, the supply always equal to the demand, are accommodate any probable increase of | whole investment has been repeated, at subscribers during ten years, though an added cost each time; every four tages, we may say, necessities of a placed only four years ago, has already years. This means a depreciation on reached its maximum capacity, and the the plant of 25 per cent per annum. This is a very practical illustration of of the telephone business which sub-

ing for still greater increase in pros- the relation of depreciation to telephone management and maintenance. but it is a feature which those who connecting every telephone in the sub- supply of current for the whole syswhich we have just mentioned which discuss telephone problems theoretical scriber's premises with the central of tem, are all most interesting. In the the public do not understand, but ly almost unanimously insist upon fice, used exclusively for his service, operating room a hundred young ladies in our own immediate interests, we which have considerable to the minimizing or more frequently in the service operating room a hundred young ladies in our own immediate interests, we which have been provided to the minimizing or more frequently in the service.

a chief feature of the business and a service. Hence the increased number they avail themselves of the first opstandardizing of equipment an indispensable factor. From even a casual consideration will therefore appear the necessity for one system, one administration, and one source of production of apparatus and instruments.

Everything Made in Canada

The Bell Telephone has extensive factories in which everything used by the telephone system has any adequate jack of the subscriber asked for. The means exceptional in the history of them is produced. In this, profit-saving is not the chief advantage, though with the rapid evolution of electrical some of the more important advanmodern telephone organization.

of lines radiating from principal cen- portunity of seeing it. tres with through lines connecting the larger offices.

ized is the higher cost of long distance matic so far as the subscriber is conline construction in this country. Poles cerned. The user has only to lift the have to be brought from the Rainy telephone from the hook; this autoriver country, and the cost of lines, matically lights a lamp in front of the has been from two hundred to two wanted on that particular line. She has hundred and fifty dollars per mile.

this is an important consideration; equipment. It is one of the most in the rest. There is no occasion for cutitor's day for the inspection of the ex- connection." change. Over 4,000 lines now centre at There are some very simple factors the building underground. The sys- scriber of everything but the simplest tem for distributing these wires, the scribers, as a rule, do not understand devices against. lightning and other for instance, that there are two wires high: potential currents, the central

costly. Expert engineering has become having a proper regard to efficient and our readers will be well repaid if

A word with regard to the switchboard itself. The object in its design Another feature not generally real- has been to make it absolutely autoexclusive of switches and instruments. operator giving notice that she is but to insert a plug in the subscriber's It is safe to say that not one per- jack, take the order and complete the son in a thousand who constantly uses connection by inserting a plug in the conception of the extent and intrica- board, with its most complete and incies of a modern central telephone genious equipment, automatically does teresting studies to an inexperienced ting in or other interruptions by the person, and the suggestion has been pperator, or for cutting conversations made that the company would be con- of before they are completed. Each public if they were to set apart a vis- automatically gives the signal for dis-

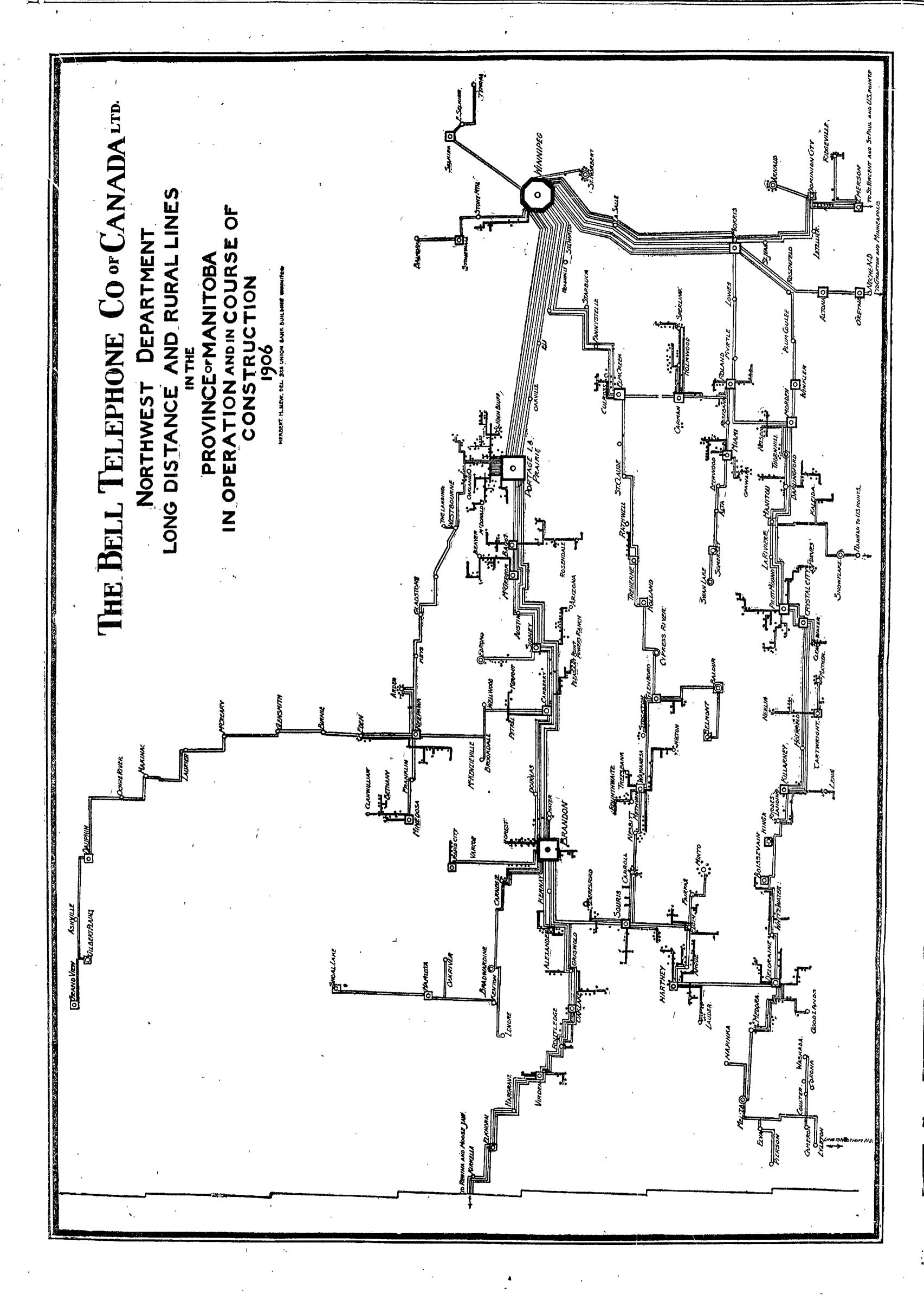
The prime object in this board is by this point. The wires are brought to automatic devices to relieve the subact in operating the service, and to place whatever action is required on expert operators.

As a business community, absorbed

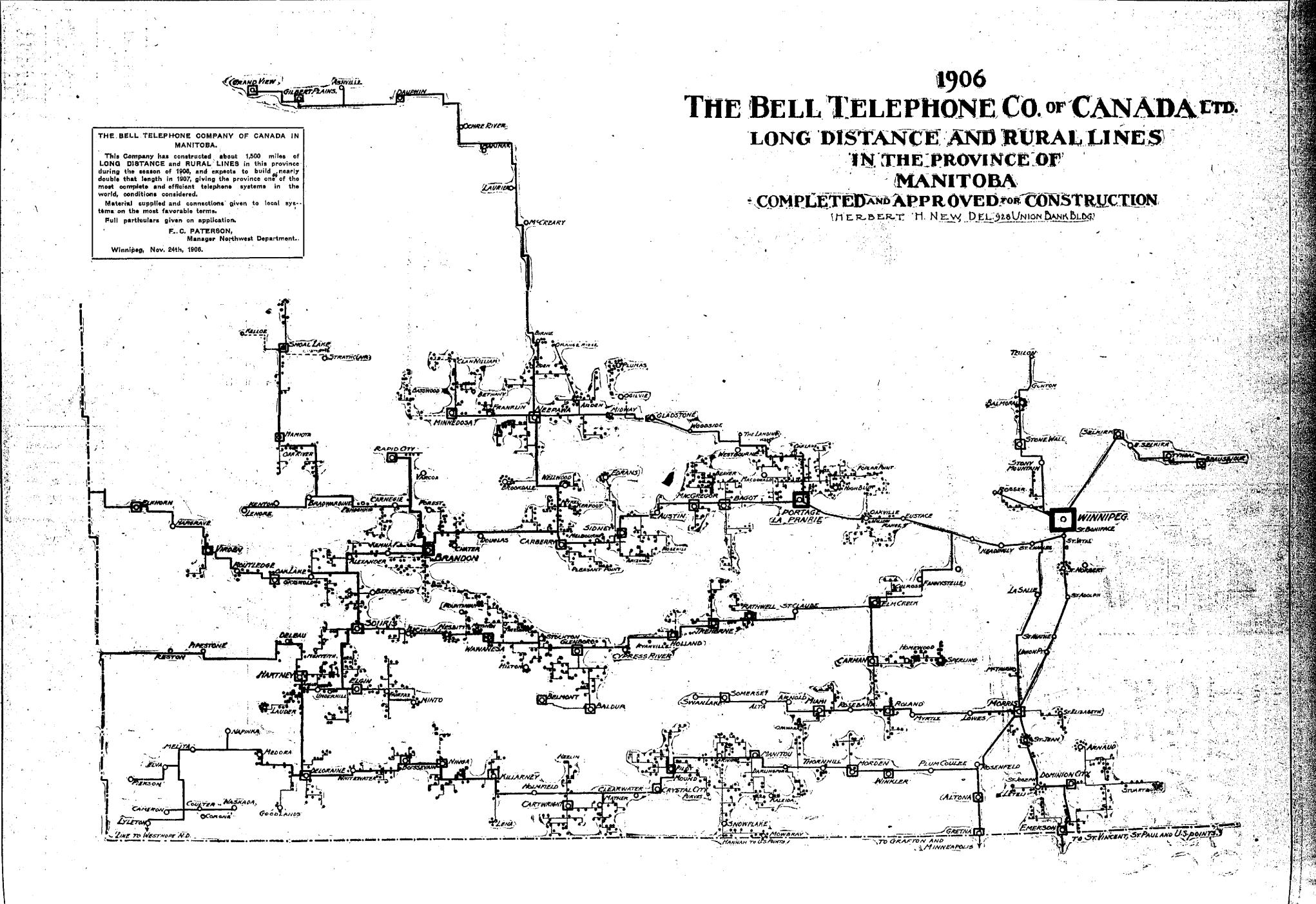
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MANITOBA GOVERNMENT PURCHASES BELL TELEPHONE SYSTEM IN PROVINCE

G RAILWAY DEAL REPORTED

linneapolis and St. Louis Said to Have Been Secured by the Rock Island.

Chicago, Ill., Tec. 31 .- The Minnepolis & St. Louis railway is reported have been sold to the Rock Island. his report is generally credited, alough it is annulanced that no official onfirmation has been received. The ock Island people accept the report true. It is understood the deal was rought about as a result of the sale the Chicago of Alton to the Clover caf when the Hawley interests in the Hawley road ware part of the paranse price.

If the report is true, the Hawley in-frests are out of the Mineapolis & L. Louis entirely. If the Hock Island as possession of the St. Louis read it cans it will have a direct line to the win Cities and that St. Louis trains Ill soon be entering Chicago over the ock Island trays instead of the Illi-tia Central

EXPLOSION IN MINE

Least Nine Men Killed in Berna Property at Carthage, New Mexico.

Albuquerque, N.M., Dec. 31—A terrific plosion occurred in the Berna coal ine at Carthago N.M., to-day. Nine in are known to be dead and there are any others not heard from. Fire damp supposed to have caused the explosion. There, were fewer men in the mine than that, as one relatives was at dinner above only on the lack of the dayloidon, but lowing to the lack of legraph facilities few details can be busined.

the miners are Americans and Mexins, with a few Greeks and Italians, everal of the bodies were badly burned he mutitated. The number of men emored by the puriers, the Carthage Fuel pmpany, is not known here. Carthage is in the West Source county, welve miles from San Antono.

LAW TO STAND TRIAL

VIII Be Given Hearing at Present Term at Toronto on Charge of Conspiracy.

Price Paid is \$3,300,000 to Be Covered by Forty Year Four Per Cent.

Bonds-Expected That Control of Entire Plant Will Be Assumed on January 15-Management is to Be Left in Hands of a Commission-\$100,000 Worth of Supplies Also Acquired.

On January 15, 1908, the Bell telephone system in Manitoba passes into the hands of the Manitoba Government.

The price to be paid by the province is \$8,000,000 for the entire plant and the business of the Bell company. Payment will be made in 40 year & per cent. bonds at par.

At the present market price of provincial bonds the price paid for the system at the present time is, in round figures, about \$3,000,000. The Government has also purchased from the Bell company supplies and equipment to the

Premier Roblin was seen in his office last night by a representative of the Free Press and asked if the rumor that the Bell system, had been purchased, was correct.

"Yes," replied Mr. Roblin, 'we have purchased the system for \$3,300,000, and have also purchased \$100,000 worth of supplies and equipment."

"When do you take over the system, and how will you operate it

"We hope to take charge, on January 15. With regard to the operation, to be a consistent Conservative Government in harmony with the policy of R. L Bordon, we shall have to operate the system by a commission, which will be free from all partyient. Personally, I am strongly of this opinion, though the Government has not formally deak with the matter of operation as yet,

"How does the Government purpose paring for the Bell system?

"We shall issue the Bell company debendures payable in 10 years, at par, and bearies interest at four per cent."

"Will you give me a detailed statement of the value you have placed on the Bell system?"

"No. I do not think I should give out any details nor correspondence until they have first been submitted to the legislature. Mr. Sise first asked \$4,000,600 for his system in Manitoba, but when he left he gave his final offer at the figured willen we have accepted. I have written Mr. Sise that w offer. We have had our engineer, O. F. French, all over the Bell system and he made an exhaustive report and presented it to us before we made the bargain."

"Are you going to retain the present officials in office when you take over

the system?" "That matter will be left to the commission. We have nower at present under the act to appoint the commission. I believe that the officials here are very competent, and I think the would be impossible to improve on them at present."

"Mr. Roblin," said the reporter, "there and been statements made that there will be an independent telephone company chartered at the next session of the House and that the Bell system will be handed over to them, the Government retaining control of the rates. Have you anything to say regarding these

"I have this to say," replied the Premier, "There will be no other pulyate telephone company chartered in the province of Manitoba as long as this Government 🍻 in power."

"How will the work which has already been done by the Government be affected by the purchase of the Bell system?" was next asked.

"We feel that all the work done by the Government can be utilized to good advantage to connection with the Bell system. The standard at the corner of McDernet avenue and Charlotte street, will be completed and used for offices and storage. The Bell company are at present renting farge offices cutside of their exchange."

"Will you tell me just why the Government purchased the Bell system

lustead of completing the public system aiready begun?"

"We purchased the Bell system," said the Premier, for the purpose of avoiding the processity of having a dual telephond system in the province, and in that way preventing the waste of savetal millions of dollars of capital as well as the extra cost to the telephone under. I believe, also, that it is a wood well as the extra cost to the telephone under. I believe, also, that it is a wood well as the

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"We purchased the Bell system," said the Fremier, for the purpose of olding the pecessity of having a dual telephone system in the province, and that was preventing the waste of several millions of dollars of capital as Il as the extra cost to the telephone user. I believe, also, that it is a good amoreial proposition and whatever profit there is in the operation of the opinion system from this time on will belong to the people of Manitoba her than to a private company. I am also proud of the fact that we have on able to sucure for the people of Manitoba the first complete system of vernment owned telephones on the continent of North America; and am re, from the information that has been secured, that the result, as years go

will prove more and more beneficial to the people."

It is expected that as the Bell bave sold their system in Manitoba they ill endervor to negotiate with the governments of the two western provinces but their coline systemibetween Manitoba and the Rocky Mountains.

e Bell have evidently decided to retire from competition with governments, d will real, if possible, to the other governments. As to the personnel of the telephone commission which wall have charge

the system in Manitoba, nothing can yet be learned. It is stated, however, that sitions on the commission will be given to some local men, not necessarily aschaed of a knowledge of the telephone business, but who will constitute board who will have charge of the onlicials directly in charge of the operion of the plant.

The government has not given out a report of the values of the Bell stem as estimated by its engineer, t on Feb. 21 1906, Lewis B. McFarit stands to-day is worth about \$200,-000 and the Brandon bear approxi-mately \$40.000. 000 and the Br

ie, general manager of the Bell Telthe general manager of the Ber fer-hone Company of Canada, when giv-revidence before the telephone com-sion at Whinipug stated that the pital investment of the company in antioba was \$1,360,787.15 including it estate to the value of \$86,040.02. Thirther stated that the general cost

mately \$40,000.

Another Method of Valuation.

Another method of estimating the value of the Bell system is by taking the number of subscribers at the average cost of installing the lines. The average cost of the different lines is about \$150, which would make the 14,000 telephones worth \$2,100,000. There are 1,250 miles of long listance lines averaging six copper wires permited a cost of \$600 per mile, totalling \$750,000. There are also 1,250 miles of long listance lines averaging four copper wires to the mile, and worth about \$150 per construction of the plant in the gro-nce, after writing off all depredia-in, was \$1,271,878.78; real estate, 6,000.00 The gross earnings of the \$1,271,878.78; real estate, The gross earnings of the stem in the province for the year 05 were \$303,066 and the number of lephones under icase was 7,655.

rural tines averaging tour comper water to the mile, and worth about \$150 per mile making the cost \$137.300. This would bring the estimate of the total cost of the Bell system in Mantoba up leginon's under icase was 7,656.

In the year 1908 the Bell spent appximately \$1,000/000 in Manitoba in
rigus/yeaks, putting in new switchards, new conduit work and long
stance wiring. During the last year
new exchange building has been erectin Fort Rouge at a dost of \$40,000
id a great deal of the underground
ideable work has been done preparory to opening this exchange. Then
erp has been a large addition to the
inniper, switchboard. A modern
firal epriss, multiple switchboard
a been installed in Brandon and the
unipe work in the city has been recondicted, all wires on Rosser avenue to \$3,037,500

interesting Story of Growth.

The figures of the Bell Telephons company in Manitobal form an interesting story of the growth of that company and also of the growth of the west. In 1900, after himeteen years of operation, there were 1850 subscribers in the province and 220 miles of long distance and rural lines; in 1905 there were 6,224 subscribers in 1905 there were 6,224 subscribers and rural lines. To-day there are more than 14,000 subscribers in the province and nore than 2,500 miles of role lines. There are approximately 5,000 miles of the growth of the province and more than 2,500 miles of role lines.

ricted all wices on Rosser avenue ing placed underground and all hers in the city in cables in the nes. The Winniper switchboard as hers in the

(Continued on Pipe Sever