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Grand Trunk Pacific Railway.

The following memorandum has been pre-pared by Jas. White, Geographer of the De-mer of the Interior: "During the sum-mer of the Interior: "During the summer of 1903 preliminary surveys were made of the u. Winning, of the line between North Bay and Winnipeg, and location surveys were made of a large Portion of the line between Winnipeg and traordinarily wet weather not only interfered with the survey with the work and movements of the survey parties, but made the carriage of supplies extremely difficult and expensive. Enough work has been done, however, to show that it is possible to get a line from Winnipeg to the point at all the get a line from Winnipeg to the possible to get a line from Winnipeg to the from the which the North Bay branch diverges ceed 0.4% and curves of not more than 4. G. T. R.) is confident that on the final location he can reduce most of the 0.4% to 0.3%. and he can reduce most of the 0.4% to 0.3%; and he can reduce most of the 0.4% to 0.3%, compensated and the line. All curves are more favored, and the line is in every way a more favorable one than the C.P.R. through the corrections. the corresponding sections. In general terms, it follows: Lace the corresponding sections. it follows the valley of the Englishriver to Lac Seul: then Seul; thence to the Ogoki branch of the Albany river; thence in almost an air line to Opazatika lake. probably follow a little to the south of and Parallel to a base line run by Messrs. Niven Ontario Government. From the Interproving Boundary that it will probably run southcial Boundary line it will probably run southeastward to the headwaters of the St. Maurice, thence the headwaters of the last namrice, thence down the valley of the last nam-The first 100 miles from Winnipeg can be built for \$25,000 a mile; that between the Tooth and 350th miles, will cost \$35,000 a miles, and 530th miles, will cost \$35,000 a mile, and 350th miles, will cost \$35,000 a miles, and 530th miles, and 530th miles, between the 350th and 530th miles, \$30,000 a mile. From the 530th mile eastward to Quebec cannot be estimated with any made, but Mr. Stephens considers \$30,000 a timates were liberal and that the road should imates were liberal and that the road should easily be considered and that the road should easily be constructed at these figures. 30,000 estimate for the line through the clay belt it is largely the to the heavy cost of getting in supplies. For the heavy cost of getting in supplied bec. Monetone reason the cost of the Quecosts being equal bec. Moncton section—other costs being equal

should be correspondingly reduced.
It should be correspondingly reduced. It should be mentioned that in Ontario and ebec the increase well to the Quebec the line has been located well to the north, that as much as possible of the timbertime it has been above the track. At the same time it has been kept above the edge of the streams plateau or 'fall line' where the the lower plateau.

the lower plateau.

Prairie Section—Cost, gradients and curvature.

Winnipeg, 850 miles by Preliminary surveys, but will be reduced by as or 30 miles. Maximum gradient in westportion, 0.4%, and maximum curve, 3°; in

eastern portion maximum grade against eastbound traffic, 0.3% and 0.4% against west-The maximum gradient in the eastern portion has been reduced on the assumption that the branch lines will feed in freight to the main line, and it is highly desirable that the locomotives should be able to haul the maximum loading. There is nothing to be gained by reducing the gradient below 0.3%, as it does not require the expenditure of more power to haul a train up such a gradient than it would to start it on the level. The maximum curve, as stated above, is 3°, but there are very few as sharp as this, and the alignment is very favorable.

Winnipeg-Missinaibi Section-The G.T. Pacific has numbered its sections from North



W. WAINWRIGHT.

General Assistant and Comptroller, G. T. R.

Bay westward, and, to avoid confusion, this arbitrary numbering has been used below, though the arrangement is not a convenient

"Sec. 9, Winnipeg to the Winnipeg River crossing, 110 miles. The first 70 miles is practically an air line, and from the 70th mile to the eastern end of the division is an excellent location. Maximum gradient 0.35%, except 3/2 mile at 0.40; maximum curve 4° and a very few, nearly all 1° and 2°.
"Sec. 8, Winnipeg River to Lac Seul, 90

miles. Maximum gradient 0.4%, most of it

against west-bound traffic, maximum curve 4°.
"Sec. 7, Lac Seul to White Earth Lake, 130 miles. In first 100 miles maximum gradi-

ent against east-bound traffic, 0.35%; of which there are only three short stretches between the 39th and 100th mile-and 0.38% against west-bound traffic. From the rooth mile to the end of this section—at its 130th mile—the preliminary location shows a maximum of 0.4%, which can be reduced on the final location.

"Sec. 6, From White Earth Lake to Otter River—80 miles. The western portion, o to 35th mile, has not been returned, but as it follows the Ogoki River through a generally sandy country, there will not be any difficulty

in getting a maximum gradient of 0.4%.
"Sec. 5, From Otter River to 9 miles west of Kenogami or English River—89 miles. Preliminary surveys show that a 0.4% line can

Sec. 4, From 9 miles west of Kenogami to Missinaibi River—132 miles. This is an air line, which shows that nearly all the maximum gradient will be against west-bound traf-This extraordinary tangent shows an

extremely level country.
"Sec. 3, From Missinaibi River to Kakozisk or Ground Hog River—102 miles. Easy gradients with a maximum of 0.4% and an excellent line. From the eastern end of the last section the surveyed line turns south-eastward via the Mattagami, Wanapitai and Sturgeon Rivers to North Bay. No attempt has been made to keep the maximum gradient on this portion not to exceed 0.4%, as it is only a branch. A very good line has been secured.

The Nelson and Fort Sheppard Ry. Co. has appealed against the valuation of \$1 an acre placed on its land grant of 500,000 acres, on the ground that the land was practically worthless for agricultural or ranching purposes, and that the standing timber, where it has not been burned over, could not be got out at a profit. The provincial tax for which purpose the valuation was made is 5% on the value.

The amount of fees paid by the Newfound land Government for legal assistance in con nection with the railway arbitration of 1902 was \$19,060. The return recently presented to the Legislature by the Finance Minister showed that the following amounts were paid: Hon. E. P. Morris, \$6,000; M. W. Furlong, \$5,000: J. A. Cleft, \$2,015; C. H. Emerson, \$2,015; C. O'N. Conroy, \$2,015; Horwood & Conroy, \$2,015.

At the annual meeting of the Railway Transportation Association, recently held at Cincinnati, Ohio, applications for membership were received from the Canadian Northern Ry. and the Toronto, Hamilton and Buffalo Ry. A report was received from the committee appointed to consider the question of the amalgamation of the International Association of Car Accountants and Car Service Officers and the Railway Transportation Association, but action thereon was deferred.