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## Grand Trunk Pacific Rallway.

Pared by fas wing memorandum has been prePartment Jas. White, Geographer of the DeMer of of the Interior: "During the sumof the fine ${ }^{1903}$ preliminary surveys were made and lone between North Bav and Winnipeg, Portion of surveys were made of a large White Earthe line between Winnipeg and traordinarth lake, about zoo miles. The exWith the worily wet weather not only interfered Parties, but wand movements of the survey Tremely difficult the carriage of supplies exhas been dolft and expensive. Enough work Possible done, however, to show that it is Point at to get a line from Wimnipeg to the rom the mainh the North Bay branch diverges ceed $0.4 \%$ and line, with gradients not to exG. Stephens curves of not more than 4 . G.T.R.) is (Assistant Chief Engineer of the and he can reducent that on the final locacomp can shorten most of the $0.4 \%$ to $0.3 \%$, ${ }^{c} \mathrm{~m}_{\text {mens }}$ shorten the line. All curves are Thore favorable and the line is in every way a the cavorable one than the C.P.R. through it followsponding sections. In general terms, bulf thence to valley of the English river to Lac $\mathrm{O}_{\mathrm{an}}$ y river; to the Ogoki branch of the Alpazativer; thence in almost an air line to Probablya lake. From this point it will Parallely follow a little to the south of and $\mathrm{O}_{\mathrm{nt}}$ Speight, in base line run by Messrs. Niven cial Boan $\mathrm{G}^{\circ}$ in about latitude $49^{\circ} 30^{\prime}$, for the eas wandary line it. From the Interprovinrice ward to the it will probably run southed re, thence the headwaters of the St. Mall"river; thence the valley of the last namWilt The first 100 miloss country to Quebec. ${ }^{100 t h}$ or $\$ 25,00$ miles from Winnipeg can be mile and $\$ 25,000$ a mile; that between the 30,000 between miles, will cost $\$ 35,000$ a 30,000 a mile. Froen the 35oth and 530 th miles, egree to Quebec From the 53oth mile eastegree of abec cannot be estimated with any mile, but Mr. Sty till further surveys are timates ale. He aphens considers $\$ 30,000$ a easily were liberal and stated that all these es$\$ 30,000$ construct and that the road should clay belt. estimate at these figures. The For to the may seem the line through the or the reverse cost of getting in supplies. thoncton section-other cost of the Que"It she correson-other costs being equal Quebecould be mpondingly reduced.
north, the line mentioned that in Ontario and ed that ase has been located well to the ime it shall be above possible of the timberPper has been above the track. At the same rear platean or int above the edge of the lower plunge or 'fall line' where the 'Prarplateau. Vature. Firie Section.
Prelimin Edmonton-Cost, gradients and cur${ }^{2} 5$ or inary surven to Winnipeg, 850 miles by ${ }^{2}$ Portion, $0.4 \%$ Maximum gradient in west. $0.4 \%$, and maximum curve, $3^{\circ}$; in
eastern portion maximum grade against eastbound traffic, $0.3 \%$ and $0.4 \%$ against westbound. The maxmum 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 c , as it does not require the expenditure of more power to haul a train up such a gradient than it would tostart it on the level. The maximum curve, as stated above, is $3^{\circ}$, but there are very few as sharp as this, and the alignment is very favorable.
"Wimnipeg-Missinaibi Section-The G.T. Pacific bas numbered its sections from North

w. WAINHRIGHT,

General Assistant and Comptroller, G.T.R.

Bay westward, and, to a void confusion, this arbitrary numbering has been used below, though the arrangement is not a convenient one.
"Sec. 9, Wimnipeg to the Wirnipeg River crossing, 110 miles. The first 70 miles is practically an air line, and from the 70 th mile to the eastern end of the division is an excellent location. Maximum gradient $0.35 \%$, except $3 / 4$ mile at 0.40 ; maximum curve 4 and a very few, nearly all $1^{\circ}$ and $2^{\circ}$.
"Sec. 8, Winnipeg River to Lac Seul, 90 miles. Maximum gradient $0.4 \%$, most of it against west-bound traffic, maximum curve $4^{\circ}$.
"Sec. 7, Lac Seul to White Earth Lake, ${ }^{1} 30$ miles. In first 100 miles maximum gradi-
ent against east-bound traffic, $0.35 \%$; of which there are only three short stretches bet ween the 39th and rooth mile and $0.38 \%$ against west-bound traffic. From the rooth mile to the end of this section-at its 1 zoth 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-8o miles. The western portion, o to $35^{\text {th }}$ 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 be got.

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 traffic. 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 altempt 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, \$6,0oo; 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.

