WORK ON TRANSCONTINENTAL RAILWAY

Great Progress Being Made on the Winnipeg-Fort William Section of the National

Highway-This is Known as the McArthur Contract and is the Biggest Ever Taken

HROUGHOUT the whole of the past winter, active work has been pushed on the section of the National Transcontinental railway between Winnipeg and Fort William, known as the McArthur contract. This contract, which is considered one of the biggest of the kind ever taken in Canada, if not in the world, runs through a most difficult country, a country of rock and muskeg, the rock of the hardest kind of granite, and the muskeg seemingly bottomless in some places.

When the engineers laid out their line from Winnipeg east, a straight route, a short one, and minimum grades were the first consideration. If a small lake was encountered it was either to be bridged or an embankment constructed across it. If huge rock ledges were encountered, either a cutting or a tunnel was run through. Enormous work was entailed in these plans, but when completed, though the cost will be great, the road will be one of the finest possible through such a country. It makes possible the first consideration of the traffic manager, a maximum amount of freight hauled with a minimum expenditure of energy. The quality of the roadbed being constructed will also permit of the use of the heaviest types of locomotives, hauling huge trains.

Time is the essential phase of this contract. Conditions in the west are such that at the present time no effort can be spared which has for its aim the improvement or expansion of the transportation facilities west of the great lakes.

casted that by the time the new transcontinental

J. D. McArthur secured the imply, and laborers who have had that it may be readily handled. If

in Canada—Time is the Essence of the Contract and Operations are Being Rushed. work was divided up into sections of from a couple of miles to ten miles in length, and these were sublet to smaller contractors. In

this way a tremendous amount of

though the unsatisfactory condi-

work has been accomplished,

tion of the labor market has been a hard thing to contend with. G.T.P. crosses the main line of the C.P.R., work is being pushed Fort William. Winter has offered no great hindrance to the work, in fact in some cases it has been a decided benefit. The counis wholly unorganized, and much quantity till the advent of the lo- to 20 or 30 feet down in the rock.

There were neither roads nor trails, the only Only Means means of communiof Travel cation ever used being the water

cation engineers.

routes through the system of lakes and rivers which cut it at all angles. An occasional trapper or prospector might have made his way along the canoe route, but there were no areas of land suitable for farming, or timber to tempt the lumberman, hence the country has never been opened

It was through a country of this character that the contractor was compelled to take in his supplies and plant. The nearest railroad station was many miles The existing railroads cannot away and he was separated from take care of the his work by many miles of rock No Time is business offered ridge and muskeg. In a case of Being Lost them, and it is fore- this kind winter weather was a great advantage, and during the past season thousands of dollars route is ready for operation there worth of supplies have been haulwill be sufficient business waiting ed in over trails which could not for it to keep it busy to capacity. be negotiated during the summer With this fact in evidence no time months. Heavy machinery and can be lost. One year lost, and it provisions have been stored in could easily be lost on such a con- anticipation of the summer work, tract, means many thousands of as well as material for the permdollars of business diverted to anent camps, and all the time before laying out the holes, and other lines, and, even more im- gangs of men have been pounding portant, it means the retarding of away on the heavy rock work. the growth of the west by just Rock work, while difficult, is

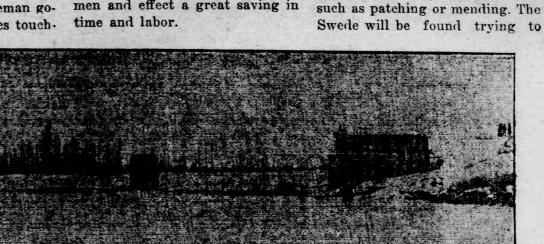
not the task that the name might

swing the sledges How Drill Gangs Work and the third to hold the drill. The men take turns in this latter work, giving some variation to

the day. The line of drill holes Starting at Rennie, where the having been decided upon, the gang sets to work. The first drill used is about a foot in length. ahead all the way through to It is of tempered steel, and as soon as it has been forced down so that there is not sufficient room left for the drill-holder to grasp it, a longer one is substituttry through which the line runs ed, and so on, till the required depth has been reached. This may of it was an entirely unknown be anywhere from a couple of feet

posed the drillers are set to work. hours or after the men have stop-Three men constitute a drilling ped work for the day. Two gang, two to methods are used. In one a time fuse is employed, the foreman going along the line of holes touch.

pressor plants or boilers to run power-driven drills. These drills do the work of several gangs of men and effect a great saving in



Where the G. T. P. Crosses the Whitemouth River, Showing Piers Which Will Be Connected by a Steel Superstructure.

Finally after several days of ing off the exposed ends. A nardrilling the whole battery of row margin of time is allowed for holes have been completed. It the foreman to get clear before Camp Life excellent field for is then that the experienced rock- the series of explosions begin. By Is Precise man comes into play. He has counting the shots a check is kept studied the formation of the rock on holes which possibly mis fired. ered from all quarters of the long-winded stories, playing



Timber Trestle on Contractor Kert's Section of the G. T. P. Construction,

now that they have been completed he must figure out the exact amount of powder (dynamite) necessary to shatter the rock so

In the second method all of the

holes are fired at Single Turn one and the same Does Trick time. To accomtric battery and different style of fuse is used. Instead attaching a time fuse the detonator an electric battery is used, and the insulated wires all carried to a central bat-

tery. When everything is in readiness a single turn of the handle does the trick. The time fuse method is usually employed where it is merely desired to best. break up the rock, which will be removed in small fragments later. The electric battery is used where it is impossible to move a large section of the cutting with the one discharge, and thus save handling the rock afterwards.

When the rock has been broken up it is loaded on small cars, run on portable tracks, and hauled out by horses or by hand to the dump, which is usually a section use of the derrick and the rock is broken up smaller, either with found advisable to install com- a nap. After supper various

Life in one of the construction camps furnishes an There men are gath-

globe, giving an opportunity of cards, or hunting the adjoining comparing national character- country for game. Fruitlessly, it istics at close range. There is a might be added. peculiar charm about railroad work, and the confirmed railto the statement that "once a railroader always a railroader." From timekeeper to waterboy, each has his allotted work and Kert is now waiting for suitable each is buoyed up by the hope that in time he may be in a position to take up a small contract of his own.

In the camp life is carried along with almost military precision. The men are called at 6.30 a.m. in the summer and after a hearty breakfast are on their work at 7 o'clock. In winter the call is given a half hour later. At noon an hour is given for dinner. and after a dip in cold water the men sit down to a bountiful spread. Here may be seen one of the most marked improvements in the lot of the laboring man. A few years ago a construction crew was fed on the coarsest of fare, salt meats, potatoes and bread being most in evidence. Now this has been changed and the cooks plish this an elec- of some of the camps are paid better salaries than those employed in the medium-priced hotels of the city.

The menu provided is most varied, and unless there is a plentiful supply of fresh meat there is trouble. Competition in camp fare has become so keen that it is difficult to keep a crew unless the food provided is of the

densed milk and Good Food cream, cakes, pies Good Work and similar accessories are found in all of the best camps, and with a bush appetite it is easy to conclude that full justice is done daily. It might be supposed that food of this class would have the effect of inducing the men to eat more than they would of the of what will ultimately be a por- coarser provisions provided in tion of the permanent way. In the past. This is not the case, as some instances the fragments are contractors state that not only do so large that they can be handled the men seem to require less of with derricks, thus effecting a the varied ration, but that they saving in manual labor. At other keep in better health and are points it is impossible to make consequently able to do more and better work.

Hours of rest are variously powder or with huge sledges. In spent about the camps. Dinner some of the larger rock cuts occupies but a few minutes and more modern appliances have the balance of the noon hour is been introduced, and it has been usually filled up with a smoke or

perfect his knowledge of the English language or looking over his earnings and marking it in his character study. time book. The old countryman spends his day in "swapping."

games or small concerts are the

order of the day, and by 9.30

o'clock everyone is in the land of

nod. Sunday morning the call is

not given till 8 o'clock, after

which the day is variously spent,

and here the national character-

istics are most strongly in evi-

dence. The Galician will busy

himself with some form of work,

First among the contractors to finish their secroader is in a class by himself. So Much Talent tion has been Mr. true is this that it has given rise Is Unearthed Wert, who had six miles a short

> distance east from Rennie. The work has been completed and Mr. weather when he will move his outfit to a point near Fort Wil liam, where he has secured another section. Other contractors are rapidly approaching contpletion. One notable camp has been Peterson's, north of Kenora. Several most enjoyable concerts have been held there during the past winter, and talent of no mean order has been developed or unearthed. Dances too, have been given at some of the camps, invitations being extended to all within reach, the contractor willingly putting up a large share of the expenses as such entertainments had a tendency to make the men better satisfied with their work. With the labor market in the condition of last winter no trouble was too great.

Many of the contractors have gone to considerable expense to secure laborers. Agencies have been established in many parts of the old country and men shipped out to work. Others have been secured in like manner from Norway, Sweden and various of the countries of Northern Europe: at least one camp has been made Butter, preserved fruits, con- up almost entirely of Italians. Despite these measures there has only been about one-fifth of the necessary numbers available, and work has been greatly retarded in consequence. Some improvement has been noted with the start of the immigration movement, which began in March, but it is doubtful if any of the work will be completed within the contract time.

Track laying on this line will not begin for some time. A short stretch may be carried east from Rennie, but nothing can be done on Mr. McArthur's section till the link between Superior Junction and Fort William has been tied in. Several miles of this are now ready for the steel, but portions of it are through exceedingly heavy country and will take some time to finish. Neither east nor west from Winnipeg does the line look promising to fulfil the prediction of the president that a portion of the crop of 1907 would be handled over the G.T.P.



Taking Away the Rock After Firing a Blast in a Cutting on the G. T. P. Construction, East of Winnipeg.

of such magnitude within the moved and earth hauled away. calls for extra expenditure. time specified. Accordingly the When the face of the rock is ex- Firing is usually done at meal

contract for the construction of experience prefer it to many the man knows his work he can section of the national high- kinds of earth work. When a save the contractor many dollars a year ago. It would have contractor has taken over his in powder, for if the holes be unbeen impossible for any one work and prepared his camp, the derloaded a second shot is necessingle contractor or firm of con- first step is to clear his section. sary, and if they are overloaded tractors to handle a piece of work Trees, stumps and brush are re- there is a waste, each of which

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