ONTARIO AND QUEBEC RAILWAY DIARY

C H RIFF

Fast C.P.R. Run, Toronto-Peterborough

Employing a Budd RDC Dieselpowered self-propelled car, the Canadian Pacific inaugurated an additional passenger service between Toronto and Peterborough, Ont., September 27, in which the 77-mile trip is made in 80 minutes, which is exceptionally fast time in view of the fact that a good percentage of

Soplember 27 1954

172

the distance is within the Toronto terminals area. In the service, daily except Sunday, the car leaves Toronto II a.m. to arrive Peterborough 12.20 p.m. and leaves Peterborough 1 p.m. to arrive Toronto 2.20 p.m. The car, an 89-psgr Dayiner, of stainless steel construction, is built by the Budd Company, of Philadelphia, the builder of the 173 new passenger cars which C.P.R. is now receiving the completely re-equip its transcontinental passenger trains. The car's equipment mediades two General Motors 275 h p. Diesel engines, automatic transmis-

RDC

sion and Budd disc brakes; cars of this type have been described fully in preceding issues of this journal. Similar cars provide fast C.P.R. service between Toronto and Detroit

An experimental test run between Toronto and Peterborough was made August II. with C.P.R. officials making the trip including D. S. Thomson, Montreal, Vice President, Operation and Maintenance: G. E. Mayne, Toronto, General Manager, Eastern Region, J. W. Stewart, Superintendent, Trenton Division, Toronto; D. J. Higman, Assistant Superintendent, P. J. Johnson, Assistant Superintendent, Motive Power, Toronto; J. B. Macpherson, Supervisor of Transportation, Toronto; Ray Dow, Road Foreman of Engines, Toronto; N. M. Kelly, District Engineer, Toronto, J. A. Chisholm, General Inspector of Diesel Equipment, Toronto; R. I. Becksted, Signal Engineer, Toronto; William Robson, District Passenger Agent, Peterborough, E. J. Heard, City Pussenger Agent, Peter

borough, and S. McMahon, General Manager, Canadian Pacific Express, Toronto.

WILL TRANSPORTATION, OCTOBER, 1954

Gradian Transportation Odober 1954

C.P.R. Havelock-Nephton Branch Line

Contracts have been let and construction started on the \$1,500,000 Canadian Pacific Ry, branch line north from Havelock to Nephton, Ont., to serve the expanding operations of the American Nephtline, Ltd., mine at Nephton, it was announced in Toronto May 12 by the vice-president of the railway. Plans for the construction of this line were dealt with in our March issue, pg. 120, and May issue, pg. 259.

Contracts for the line have gone to Robindale Quarries, Ltd., Picton, and to Quemont Construction, Inc., Montreal. Robindale Quarries will build from Havelock north for 9½ miles, including a 1,500 foot siding nine miles north of Havelock. Quemont Construction, Inc., will build the remaining seven miles, starting at the mine site. Work is expected to be completed on the whole line by April, 1955.

Construction of the line will require the excavation of approximately 156, 900 cubic yards of earth and 173,000 cubic yards of rock. Some 44,000 cubic yards of ballast will be required, and more than 3,500 tons of rail, to plates, spikes, bolts, and rail anchors. In addition a communication telephone line will be built to parallel the line for its service, linking Nephton with Havelock. There will be no large bridge structures.

Railway survey parties started checking the location of the new branch last October and the final survey is in progress at time of writing.

Canadian Transportation. June 1954

C.P.R. Hayelock-Nephton Line

The Canadian Pacific Ry, new branch line from Havelock, Ont., on the Peterborough Subdivision, to Nephton, 16.6 miles, was completed in December and placed in operation in the latter part of that month.

the general supervision of G. W. Miller, Engineer, Maintenance of Way, Eastern Region, C.P.R., with G. E. Brownlee, Locating Engineer, Havelock, in direct charge. There were two resident engineers, R. Davies, on the south section, and R. Fraser on the north section. Jack Morrish, Assistant Engineer, was in charge of land purchases and surveys. There were no bridges of consequence required. Total cost of the undertaking was about \$1,500,000.

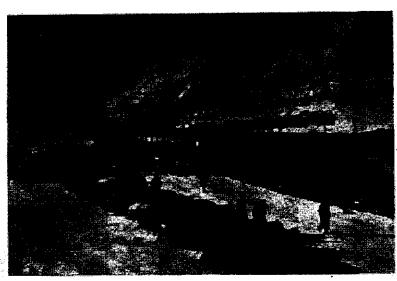
CANADIAN TRANSPORTATION, JANUARY, 1955

C.P.R. Havelock-Nephton Line

The Canadian Pacific Ry, branch line to connect Havelock, Ont., mile 0.5, Peterborough Subdivision, with Nephton, site of the American Nepheline Co., Ltd., mine, 16.6 miles, which was under construction during the summer and autumn, was completed, and, following inspection and approval by the Board of Transport

to be laid at the north end of the line. Also, ballasting remains to be completed at the north end. Board inspection of the line took place December 29, and 86 tons of mine product was handled to Havelock in two covered hopper cars on that date.

The contractors on construction were Roblindale Quarries, Ltd., Pic-



The C.P.R. Special Train at the Mine

Commissioners for Canada, was placed in operation in the latter part of December. The track is laid with 100 lb. steel on no. 2 treated ties, hardwood on curves and softwood on tangents, tie-plated. Maximum curvature is five degrees. There are sidings at mile 3 and mile 8.5. At time of writing, Dec. 23, a wye track remains ton, Ont., on the southern 9.7 miles, and Quemont Construction, Inc., Montreal, on the north portion. The contracts included grading, clearing, grubbing, culverts, fencing, and road crossings, and Roblindale Quarries also crushed and supplied ballast. Tracklaying and ballasting were done by C.P.R. forces:

Winter conditions forced cessation of ballasting, and north of mile 5 a slow order is maintained on the operation of all trains. The ballast required for the completion of ballasting in the spring is stockpiled at mile 0.25.

On the southerly 3.5 miles of the line, the material encountered was hard clay with boulder intrusions, but no heavy cuts or fills were involved. From mile 3.5 to mile 4 a deep limestone cut was necessary, with the material taken out employed in partially building up a high embankment between mile 4 and mile 4.5; the balance of the material required for this large fill was borrowed from east of the line at mile 0.25. Unsuitable swamp material was excavated at five points between miles 4.5 and mile 7, and the excavations were filled with a suitable material to provide a stable roadbed A steep side hill cut between mile 5.6 and 5.9 presented difficulties, due to large boulders strongly embedded in clay, and several springs were encountered when the cut was opened. Limestone from a large rock cut between miles 8.7 and 9.1 was used in making an embankment between miles 9.5 and 9.75; also used was earth fill from a cut between miles 9.2 and 9.4.

While in the reconnaissance survey the possibility of taking the I'm around the west end of Long Lake was considered, it was found, after close study and the taking of soundings, that a crossing could be made which would shorten the line by about a mile, and the line was, therefore, carried across the lake. The lake depth was 38 ft. to solid rock, and a rock fill of 50,000 cu. yd. was required, this material having been obtained from rock cuts just north and south of the lake. From mile 11.8 to the mine the line traverses a wilderness of rock and swamp, home of beavers, muskrats and deer, with the rock a porphyry type granite. Underfill blasting and blasting by toe



A Section of Track on the C.F.R. New Branch Line Between Havelock and Nephion. Out.

shooting methods were used to consolidate rock fill over swamps and across Long Lake, with over 500 case-of dynamite used. At mile 14.9 a sinkhole required 798 cu. yd. of rock to advance the line 21 ft.

All told, 200 acres of land were acquired for the line, of which 130 acres were cleared. Earth moved was 275,000 cu yd. and rock 173,000 cu. yd.; culvert pipe installed totalled 3,771 ft.; there were 70 ft. of castle pass installed and 38 ft. of multi-plate culvert at Long Lake, and 17 miles of fence was erected. Ballost crushed totalled 40,000 cu. yd.; 100 lb. rail laid totalled 3,168 tons, and 824 tons of rail fastenings and 53,140 creosoted ties were used. Beaver dams to the number of 24 had to be detroyed. The ruling grade southbound (direction of loaded trains) is 1.6%, between miles 4.5 and 3.5, while the ruling grade northbound, from mile 5.2 to mile 5.6, is 2%.

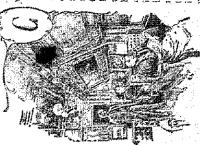
The method of laying rail employed

was the most advanced which the C.P.R. has used to date. With the operation fully mechanized, the use of power tools enabled the work to be done with 37 men in place of about 100 formerly required for such a project. Even the old track gauge was dispensed with, with the use of bridle bars and "Trakgagers", both of which were introduced on this line. The Industrial crane hoist which was used not only laid the rail, but transported the rail and fastenings.

Soon after the line was ready for operation, the C.P.R. operated a special train from Teronto to the mine at Nephton, with the party including N. R. Crump, C.P.R. Vice President, and other company officers and officials, and mine officials.

The C.P.R. engineering officials in charge of the line's construction were specified in the January issue, pg. 26.

CONTINUENT. <₹, ACROSS



ANADLANS are proud of the There may have been differovers in the past about its about its cost, but there are no differences beday aurong the tremembers influence it has Raftway, censtruction, about its route, benefit to the combine or allaste had in developing the resources unmiers who Transfers people about he great Many of the Berieben in the Charlin Partiament tint exempet in ronnecton with the launching of three lines and it is not the undertaking will be fresh our intention to review them Pacific of the Dominion, in the minist of Савадии 1,43

it played an majortant

part in bringing about the downfull of another and it was commonly said it would red be the downfull of many another Administration before it was completed. These latter proved It wrecked one Garagnment.

to be poor prophets but it is not to be wondered at it there was great replidation over such a stupendous work for pass by the preliminaries incident to such a great project the debutes in Parindecision as to whether the in this of money and land made by Parliament and rejected, the however, we will lishrent, the different offerwork should be done by the the Covernment, and come private enterprise abled by . when the Canadian Pacific Railway, Aut received down to the 17th of February Royal Assent and so young a country. itself Government article,

matter had been betore Parliament then for ten years and during that time portions of the work had been underraken by the McKenzie. Administration when it had been found impossible to got the work done by private energyise for the grants that the Government was willing to give. The copys was to connect the Atlantic and the Pacific tecaus by a This meant the construction of at least 2,500 miles of new fine and the conditions of the contract were as follows. The Gavernness were to complete and hand over to the Campany the pairs of the road then under construction, amounting in all to [13] railway to be made entirely on (unidian sent. miles and representation on portion its charter. Company

In advance of the track laying party were two bridge grags, one working by night, the other by day. Whenving sink finished bridge; and twenty-four bears afterwards the rails of timber nor any preparation for work could baseou one day, denus in this gaine, moving along slowly his with admirable procession overything wore like chakwork, each man in his the next day would show two or three spans of a nicely came the trackellying grows. the most attractive and lively party on any railroad buildings. There were not most and in plans knowing exactly his work and doing it at the right finis before there was nothing but an appareed soil, two ditches. the hundred humbers of the track layers class at their heds, They move along and where in hour and a low cultureness there is now a linished working nallway. Each day from eventy to twenty-five ems of raffs and from fairy to fifty cars of ties and other malectal were would be laid and mine working regularly over it. hid by this busy track beying gang. and in the right way.

Owing to Books in the spring of 1882 the work Mil not proceed quite so regidly as it had before but after Juge of that year'n was pushed on with great vigor and by the End of the The greatest length of mileage left in one mouth was in the were completed and this included the gradual necesit of the Rocky Momerains to within four names of the summit of The total advance for the three years had been 962 22 miles in July 1883 and the greatest length had in one day Hi 1883, 376 season 349 miles of railway had been fluished, the pass.

bours his name in boner of his haying been the first man who had transplied over the obstacles of the Kicking Horse Pass, the ascent and descent of the Selkicks presented The traveller, who in his hrations coach enjoys some of the most splouded mountain seenery in the world, is also wreak Through it the radway Even to these problems that taxed the skill and courage of the vagineers. with the daring and the ingenuity of the near who decises cume quickly upon the heels of its discoverer, and executed a railway in such places. known to have crossed this range.

While the track-layers from the east were steadly making moved the train, gredually closer topoline came the two-gengs of working until on the 5th of November, 1885, while the train was in the Engle Jass, the two parties came their way through the Rozers Pass, those from the west west making good progress neross the Gold bange; and as the antunn adranced it became an interesting question when mud train that was destined to pass from the St. Lawrence miles of tutels to be laid in the far west. Strudily westward face to face and the Canadian Pacific Railway with the Northern Pacific Railway celebrated the driving of their last spike by having a gold one made and giving an excursion that cost them about \$260, 600, but there was no fuss or extensation about the last spike of the C. P. R. It was driven by Sir to the Pacific coast left Montral, it is said there were severy When the an accomplished fact. Donald Smith, new parties would meet. one rud was where the two execution of

Strathcona, in the presence

of not more than a dozen per-

sons besides the workmen.

"The Inst "spike,"

Horne had lang before annonneed, "will be just as the read and those who want to see it driven will have to

good an iron spike as any on

pay their fare. There was do banguet, no speech making

in the depths of that British Columbia forest; and after seeing the last rail well and

('olumbia

renty laid it is said the whole

party went fishing.

telegraph-for the wire had

dashed the news around the

kept pace with the rails....

that the Canadian

world

P. R. STATION, SMITH'S PUBLS.

· Engineering · gave the following description of that day's work at the Gines of There were I' men to handle the fren, that is 12 to unload at from the cars and 12 mers to referred it on the 302 tons each gauge, whilst the two distributors of sugje-plates, at d boilts, and solyasters of the rails bandled 2120 rails, 4240 plates and 8480 boilts. These were followed by 15 boilers who plates and 8480 lights. These were followed by 15 bollers who put the on an average 565 bolles each, then 538 spikers desce-The total manner of rails laid that day was 2120 or fiel tone, Pive men on each side of the front car handed down 1040 pagts, troffes. It not the same number to be state of the track, 635 miles on July 28th in that some year

accomplished fact. The contract stipulated for the completion of the line by May 31st, 1891, the last rail was laid on Nov, I'll. 1885, and a regular through train service commentered on June 28th, 1886, or five years in advances of Railway Pacific the tune.

RAILWAYS OF THE WORLD.

indecision as to whether the work should be done by the of money and land made by Parliament and respected, the the Government, and come Canadian nd the private enterprise abled by down to the Lith of Pehruny, postence Gevernment itself its cha 1881, when the 2.6 Paritic Railway the Moyal Company

matter had been before Parliament then for ten years and during that time portions of the work had been malecraken by the McKenzie Administration when it had been found impossible to get the work done by private enterprise for the was to connect the Atlantic and the Pacific (beans by a May, 1891. They ubildy as mentioned in another article was the construction of at least 2.500 miles of new line and the were to complete and hand over to the Company the peris of by the Company before used by the Company in the first construction of the read fight of way over lands, owned by the Government was to be Covernment interference until the share holders were The Government Marerials were to be admitted free of charge. The Company's lands, if unsoid, were to be exampt from taxes for twenty years, the The rates charged by the Company were to be exempin receipt of ten for cent, on their stack, and for twenty years no competitive line was to be allowed to cross the 2 miles and representing an outlay of about \$"B.Coc.to.). through live was to be completed by the Company ! the road they under construction, amounting in all be \$25,000,060 and 25,000,00 acres of haid. grants that the Government was willing to give. railway to be made entirely or Canadan soil. conditions of the contract were as follows, from ٥

Manitolat or the The first of nullified during the North-West Territhe two latter conhas been under an agreement and if we mistake present Governmen not Premier Green, and the courage of the Company. is figuring on dence of the faith themselves before members of 11 submillion \$5,000,000 public for aid and ant A8 833 Company 01 past very a pivealing knocking ditions sterling, other. scribed tories, X11.23 17.23

how that faith

Беев гемигфф

Course

everyous knows

OF P. R. STATION, SMITH'S CALLS.

6-38 miles on July 18th in that sum year . Bugineering." following description of that day's work at the "There were 21 med to handle the hon, that is 12 to unload it from the cars and 12 meas to reload it on the it took the same unaborto by a down in the mock. and bufts, and adjusters of the rails handled you rails, 1240 them forward on to the track, averaging 17 loads of 30 shepers The weal number of rails buil that day was elev or old rous, Pice men on each side of the front car handed down little mile ing rais each gang, whilst the two distributors of anglephites. These were followed by 15 botters who putchi du un averque 505 bollis each, then 32 spikeus dreve There were 16000 the unleaded from the trains and reloaded onto wagons by 32 men, and 33 trains hauled to each team. On the track 8 men unlanded and distributed them and four others spared them." plates and 8-180 holes. GROW Spakes. gare the trullies.

the north shore of Lake Superior. The mount of rock-cutting was leavy and here as in the Rocky Mountains it was But wonderful as was the completion of such a longth of milenge in three seasons, the work which had been going on near Lake Superior was no less remarkable. Some of the most difficult and expensive of the whole work had to be done along found desirable to establish dynamite factories on the spot.

American houndary

to see it drives will have to There was leitepter, no speech making forest: and after flashed the news around the the read and those who want in the depths of that British truly laid it is said the whole But the for the wire had Canadian seeing the last raft well and kept pace with the milk party went fishing. that the tay their fare telegraph... Columbia Pacific World

pletion of the line by May 31st, 1891, the last rail was laid on Nov. 7th, 1885, and a regular through train service commenced on June 28th, 1886, or five years in advance of The contract stipulated for the Railway accomplished fact,

RAILWAYS OF THE WORLD

is said that more than 90 per cent. of railway passengers in England travel dird-class, about 83 per cent of the receipts.

villages they serve. This is said to be on account or the danger of fire, the houses in small places generally being thateled with straw.

A new reyal train for the Offen has been constructed at It is a peculiarity of Russian railways that their stations are generally two miles or more distant from the towns or

sists of six salvon carriages, and mahagany is the only wood The doors of the Queen's own saloon are so arranged Swinden by the Great Western Railway Company. used.

platforms

000

side.

that two attendants or leave with her will be able to enter floor of this carriage Windsor, so that the is on a level at Paddington and future require to use steps. The new train London from Wind fown to Johannes-Africa is progresof railway building. The Cape Reilway, Queen will not Queen for the sing in the burg, and with the majesty, reaching June 21, Majesty. cither time 81.8 ا. ن EASTERN LINES AND CONNECTIONS OF THE CANADIAN PACIFIC RAILWAY. NONTH EAS TERRITORY

February 24 1898

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ATTEN ONTARIO

OUEBEC DIVISION

times tolk as that frequently be was the only passenger. The Brockville and thirmy Railway, as the road was called, was extended from time to time antill it resided Sund Point, when P. R. Co., with their magnificent * conceptive and objectly jush, took hold, that railway, facilities have rapidly malifiplied. The first college to this sixbos tim only way of gelling to thank was by Brockville and P. Jacks were frequent and the former was always A cirizen who went to Brookville geousionally those Propriet of the Perimersky then a Bourshing village, and to take the contract of the contract the stembent up the Otiana to Could's Whart. There they boarded nazons and role fourtsoir uilling over a magh and hilly read to Tableit. A little list bottomed stemmer—the Jason thenial—raned effect the father of 4, H. Gottle, proprietor of Riden fenter was waiting and book them, some events two part of Canada was for many years exceedingly slove. miles, mathe end be Mud lukic. The fast stage of two miles was railway system in place was boon Brookrille, the termines being Perth, the It is soily store the C. namilly made in the hatel has, development of

Treat Park, or instring off place, the fountry beyond being unexplored, or instable only by the lumbermen or the lumter. When the U. P.R. and the their existing government, the late Sir John A. Machinald being. Premier, intranged for the Paint to Penkroke, and for some rears the latter town was the The pour mas also extended by degrees from Sand construction of the rong to the Pacific occan, it became part of The may expension it we remember night, was from the leton Pare to Olyma, giving is direct communication with the the great trues-confinental line. (Spire)

harly in the eighties two rival companies, the Outario Toronto and Culawa local disadvantages, A V was and Dechee Rillway Compiny and the Toronto and Ottawa Compone described charters to build a line from Foronta to Butt commenced operations and graded a perion of their projected roads, the lines at some Both suspended operations when the C P. R. Stack hold of the Ontario and Quebre road and fluished it from Toronto to Smith's Falls. It was opened in the winter of 1883 4, and though it gave us direct communicamade two quites out the Pranktown road and for two or three places being differs few less apart. tion with Persone, it brought Smith's Eally and eastward.

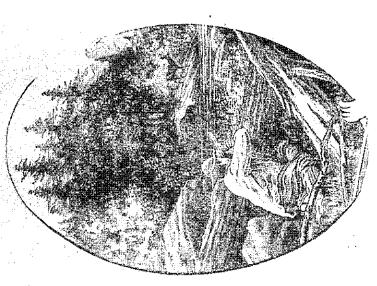


citizens of Smith's Falls 1111 years passengers for the there to eateh their trains. la 1886 the C. P. R. prareal and asked the various east or west had to go out from this point to Montposed to build an air municipalities

THE RIDEAU RECORD

west have to encounter among the around he shocked. It is necessary to resort to subterfuge to about it, to hide from it, or to make good by articifical mouns the path that the railway has struck our out for itself.

Under favorable circumstances, the snow parts readily before the oughfught of the plan. At imiss, however, under the battery to which it is subjected, it only becomes more rigidly compressed, more solid, more unpeniationle at each renewed



HUNTING ON THE LINE OF THE C. P. R.

back a mile, the throftle fifty he thrown open it may rush upon the barrier at a speed of 40 or 50 miles an hour, but when the stow dust has cleaved sufficiently for the engineers to The cugine may go see around them it may be that they have only advanced a yard, possibly the ougine flees have been extinguished, not imprebably the engine may have been thrown off the line. The one course which then remains is to call in the assisnf ien. charge, a sedid, unbudging block

and the editor entered

tance of a small army of men that a way may he forced through the snow with pick and shovel, and while these operations are progressing, the passenger train has to be kept constantly on the move, lest in a few hours it becomes incorred to a consequence.

as they do on the plow of the ald inchined type, with which it With a rotary plow the engineery do not run the same risk is often necessary to charge the snowbank at top speed, not even the rotary plow is lighte to be disabled by envariancering the frozen cureuss of a borse or steer in a snowbank, or the debris of fatten tolograph polos, or awong the mountains, the trunks of gigantic trees. It is nominally the my of the section men to look out for this, and, if possible, to warn the engine driver, and to telegraph for a gang of workness with pink and needless to say that the most vigitant section men cannot merely uniting through but burrowing under the spine. shovel to elear the truck in the old-fashioned way. always be relied upon in such a matter as this.

TURKEY FAIR.—Its Origin and History.

MITH'S FALLS is the great turkey market centre, not You we 16 11 only of the Dominion, and of the world. You us to a New York restaurant in surmer und are charged 50c, for lurkey. If you suggest this as bring high you are add that it is Smith's Falls turkey, and of course that souther it. The pointry usego in seek market. The reason is that producers have hid ach long market. The reason is that December, in spite of the 5s. per lb. exacted by the American storage and quicker transport come about, as they are bound to before next year, the market will mountly shift to Greek Government, and all competition, our fair broke the record our fair has almost passed toto tradition and we parpose right here to give a brief account of its mechion. In the early N.Y., mude an animual trip to this locality, buying up furkeys ferried over the river and driven to his home. Mr. Wright was office for a chat while his turkeys rested in the Russell House with over one hundred tons taken in the two days. When cold sixties Mr. W. J. Wright, of Clay Pots, or some such name, In 1805, during one of Biese chats, our fownsman, Mr. yard. In 1865, during one of these chais, our fownsman, Mr. W. M. Keith, who had two years before started the publication his own place, as they were no use as he got them from the farmers. The long and the short of it was that Mr. Wright The history of a genial gentleman and loved to drop into the newspaper of a weekly newspaper, suggested that it would be easier to cordially concurred in this but said he had to farten them at buy the turkeys dead and take them over in boxes. M. Wright experience that many know just exactly what is required. and driving them on foot to Brockville, where Britain and our farmers will get better prices.

into an arrangement by which the editor was to publish the rules for fatlening and killing and to market day when Mr. Wright was to bly earne round and about be present to buy; appoint



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Swith Talk



real and asked the various

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eitzens of Smith's Palls advantages of -uch a road

route to boins municipalities

readily recognised

M CARMIDE

the present in defatigand and thus has been in the service Has thirteen years to his credit as for sixteen veaux. He has been here since the opening of the an engineer. He started in at Breckville on the C. P. K. in 1882, 0, & Q.

A. Bennett,

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Prom! who had been agent at the X, being made able and and installed in the position be still holds, Mr. courteens staten arent, was brought from Montreal yard-master.

Customs. Departments have officers on the ground to book after the regulations of both countries, and facilitate tranship-Mr. A E. Mills represents the Canadian Government Having no official data to go by, and trusting only to memory, we may be wrong in some of our dates, but such in brief is, an outline of the railway goods from the Orient are brought, sorted out by a arge staff of employes and transhipped to their destination. Both Canadian and United States development which has made Smith's Falls such an Here the tens and other and Mr. M. F. Crane the American. important railway coutre. destination.

SALMON ARM, SHUSWAP LAKE.



J. A. TANGUAY

Share at Horbelegn in 1884. He has been seven years an engineer, and came here from Ottawa in Began railreading on the North

In 1886 the 1', P. R. profrom this point to Mont-

east or west had to go out

years passengers for the there to eatch their trains.

tance of a small army of men that a way may he forced through the snow with pick and shovel, and while these operations are progressing, the passenger train has to be kept constantly on The one course which then remains is to call in the assisthe ance, lest in a few hours, it, becomes incupable of movement at all,

the line is passed upward from stage to stage, climbing the steep walls in tiny shovelfuls, until it. finally reaches the open At such a time it is no unusual thing to see several bundred Perhaps eight or a dozen platforms are cut in the snow, and thus what is removed from waste, thirty or forty feet above the heads of the workers on men at work on a snow drift. the ground level.

and cheerfully voied a kenus of \$25,000, on

heuse and other additions

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eendition

stimlated in the agree-Angust, 1887, the road

made.

ment then was opened

The thing that has simplified the task of snow fighting

charge, a solid, unbudging black of ice. The engine may go back a mile, the throttle flight be thrown open, it may rush upon the barrier at a speed of 40 or 50 miles andour, but when the se ow dist has cleared sufficiently for the angineers to see around them, it may be that they have only advanced a yard, possibly the engine fires have been extinguished, not improbably the engine may have been thrawn off the line.

the only purchaser and he the quality. For 10 years started, Mr. Wright being into an arrangement by which the editor was to publish the rules for fattening and killing and to market day when Mr. Wright was to day came round and about stuff were brought in and He was delighted with t"n tons of very good Mr. Wright bought it all at from 10 to 1ke, per lb. went on as buv. bought all offered. be present to appoint a the fair

has run on all the divisions of the C.P.R. from Montreal to Rat Porters. Last year he went over to Kerry, freland. He began firing on the C.P.R. in 1885, and in 1890 he was made an engineer. freland to visit his old home. Z, 8888 other buyers success of the fair attracted either crowded out or did Wright 8 B d

Came to this country from county

T. MURIARIY

not deem it to his inferest to attend. Year by year over since it has held the prond pre-ominence of being the greatest poultry fair in the world.

A 400



OME of the boys had told the man in charge of the cattle yards at the Abilene that the duffer in charge of the freight outfit ever on The eattleman thereupon the hill had referred to his personal appearnonneed that he would go over and make the freighter eat grass four refractory steers and an-He didn't go at once, however. disrespectful way. twisted the tails of three or waited until he got real or fill him full of lend.

on his gam and shoved a sharpen the point of his bowie knife and tell about land killed down in Texas. as long as he could the mud and until he could clean up his guns and the number of men he After delaying the matter cattleman announced that he was ready. He buckled knile down his boot leg. looked - ngly,

est doubt that he thirsted for gore and bankered wasn't the slightafter grave yards. ooked ferocious. Therm



JAMES LEWIS

Has been running on this division since 1890, when he was made an engineer. He first worked for the

The Snow. Fighting

tra biggest snow fights on earth. There are thousands of men Rest whose only occupation during the winter months ANADA is the battle Jo punoaz north ال

is to fight snow. and continual work, too, a life greatest landships

more than anything else, especially in the prairie country, is the rotary plow. The appearance of the "rotary," as it is railed by railroad men, reminds one of nothing so much as the banks, elearing just enough space to enable the waiting train serow propedler of a steamship. It is a huge rosette of fanges, about twelve feet in diameter, that lanes its way into snow higher and higher on both sides, mail we have the perpendicular embankment through which the train often passes for to pass through. As the winter goes on the snow is piled miles without a break.

a graceful arch of silver dust, the snow is flung into the air to a height of 60 or 70 fret, descending like a fountain over the ball buried posts of the telegraph. From the snoke stack a volume of the is rising. There is an uprour like the sound the intervals between the shevels, full into a large-sized fan As the wheel revolves the snow chips pass back through elevator, and are hurled torth on this or that side of the line, of artillery ralloping over a cobbled street. As a spectacular according to the quarter from which the wind is blowing.

- Telegraphic

tebruary 24 1898

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ž. cordially concerted in this but said he had to fatten them at

his own place, as they were no use as he got them from the

Tradition to the second second

The long and the short of it was that Mr. Wright

and the editor entered

farmers.

THE RAILWAY & SHIPPING WORLD,

With which is incorporated
The Western World, Established 1890.
LLUBTRATED PERIODICAL DEVOTED TO STRAM AND
LECTRIC RAILWAY, SHIPPING, EXPRESS, TELEGRAPH
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The Official Organ of The Canadian Freight Association. The Canadian Roadmasters' Association. The Canadian Ticket Agents' Association.

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wind storms, etc. (See table 4 on page 69). A statement (see copy of such report covering Havelock section, Nov. 1, 1900, in table 5 on page 71) for the 24 hours ended midnight is made up & sent the general superintendent by first mail showing each freight train run in the direction of balance of tounage-between what stations, number of engine, class of rating schedule load at that class of rating, tare, ontents, actual & equivalent tonnage & particulars of any doubling or assisting. The percentage of total equivalent tonnage taken over the ruling grade on each section to total of loads which, according to schedule & class of rating, should have been taken over that ruling grade by the power on that day is calculated, & the percentage performance on the different sections tabulated for comparison. If an engine doubles or is assisted over the ruling grade the superintendent is debited with what the engine can take over the next heaviest grade.

The foregoing paper was read by Mr. Tait before a recent meeting of the New York-Railroad Club, at which 1st Vice-President W. W. Wheatly presided. The reading of the paper was followed by a very important discussion.

The CHAIRMAN said :- There is probably no ubject in connection with freight transportation on our railways which in recent years has excited more discussion & interest than the matter of rating freight engines according to tonnage. This is a matter which interests not only the transportation officer, but also the head of the locomotive department. I think we should have a discussion this evening without it being necessary for me to call upon members by name. As no one has been selected to open the discussion, the field is free for any one who chooses to speak first.

A. E. MITCHELL—I notice that the author has mentioned the old method without stating what it was. I would be glad if he would tell us what his old method was when he adopted the new.

The CHAIRMAN-I have no doubt that there will be a great many questions asked Mr.

and company and any activities lies and Tailsto-night; & languages that he makenote of them as they are propounded, and will be given an opportunity later to reply to them all. Will some one open the discussion. We would be glad to hear from Mr. Daly, of the Lackawanna road.

J. M. Daly—I came here more to learn about tonnage than to talk about it. But there are one or two points I would like more information on as regards this cheer will

information on as regards this chart. It strikes me that the chart provides for a reduction on the ratio of 13 to 10 of loads against empties regardless of the number of empties you have on the train. In other words, if you are pulling up a grade 90 ft. lo the mile, if more easy to handle the full rating of empties than it would be if you are undertaking to pull them up a grade of 45 ft. by reason of the length of train & gradient resistance. So that it struck me that the longer the train of the greater the tonnage assigned a train, the greater should be reduction for empties hauled. Another question that I wished to ask is what provision is made for busy tracks? For instance, on a portion of our line we have 20 first-class trains in each direction each 24 hours, & from 5 to 7 fast freights, with a grade of about 45 ft. to the mile for 24 miles. Now, if we confined the movement of frains to 7 miles an hour it is going to utilize that track with freight trains the greater portion of the time. Another feature that struck me was in the testing arrangements. If on a favorable day, with an engine that the master mechanic knew was good, & a choice engi-neer, good fuel, favorable conditions, he hauled 1,000 tons, what reduction from that was arbitrarily made in rating the engines to insure the general run of engines hauling tonnage up the same grade during the busy season, when the power is more or less overtaxed & run down, & when new enginemen & firemen are pressed into service that are not as competent as the average run of enginement & firemen that are utilized in testing? It appears to me there is as much danger in under taking to rate your engines too high & as much money lost in overtime as in underestimating them a little, especially on busy pieces of track where you have a heavy passenger service & a heavy high-class freight service. F. F. GAINES—As I understand the matter,

this sliding scale is made on a basis of either light & loaded cars or partially loaded cars Now, there is another case that may come up, & I would like to know what provision would be made for it. For instance, I have here a by the same engine; one was made up of too, ooo lbs. capacity cars, the other was of in the 100,000 lbs, car train was 676 tons; the net tonnage was 1,824 & the gross tonnage 2,500. With the 60,000 lbs. cars the tare was 619, the net 1,381, & the gross tonnage 2,000, By comparing those figures, the net tonnage of the 100,000 lbs. cars is 24.2% greater than the 60,000 lbs. cars. The gross tonnage is 20% greater in those 100,000 lbs. cars than inthe 60,000 lbs. What kind of provision would be made for cases of that kind? We all have, more classes of cars than one on our roads; It takes more power to haul one class of cars than it does another, & I wish to know-if this, scale provides for any feature of this kind ...

The CHAIRMAN-I think it would perhaps facilitate the discussion if Mr. Tait were permitted now to reply to the questions that have

& also to elaborate slightly upon the paper.
Mr. TAIT - This paper is, as you will have seen, only a brief description of a method of rating & loading engines which we have had in effect since Oct. 1. Prior to that date we had about the same system of rating engines for the different weather & other conditions as we have now, but we were loading them then on what I have called the "actual "tons as nage hasis; that is, the actual weight only

HAIRINK REPART was counted, whether a car was loaded with conty one ton or to its full capacity. The only exception was in the case of an entirely empty car, to the weight of which an arbitrary addition was made. When we said that under the old system an engine was capable of taking soo tons over a grade, that meant goo tons loaded cars, whether loaded light or to their full capacity. This, I think, answers

Stons in loaded cars, whether loaded light of to the life in full capacity. This, I think, answers Mr. Mitchell's inquiry.

The comparison between our old & our new system might be summed up in a question. When you say that an engine will take 900 tons over a certain grade, what kind of tons do you mean? Do you mean 2 to 1 tons; that is, 2 tons of contents to 1 of tare? Or do you mean 3 to 1 or 1 to 1? It makes a great difference. For example, let us take a

train of dressed beef. We will say that the load for the engine is 900 tons. The cars will average, say, 15 tons, & the beef & ice, say, 15 tons, or 1 to 7. Each car with contents will weigh 30 tons, & 30 cars will make the 900 tons. Now convert the beef into grain, in cars of 30 tons capacity. We still have the car weighing, say, 15 tons, but we have 30 tons of a load in each car, or 2 to 1. Each car with contents weigh 45 tons, & we will get our 900 tons in 20 cars instead of in 30 cars. Which will pull the easier? The beef or the grain, each weighing 900 tons? There can be no question about that. Any engineman will tell you he would prefer to pull the grain (the 2 to 1 train). What does this mean? It means that if the engine can take 900 tons in the beef train (1 to 1), it can

by reason of the smaller percentage of take a greater tonnage in the grain train (to i). Our method is devised to fake care of this; to profit by the large capacity are the or well loaded (small percentage of tarain having a high percentage of tarain having a high percentage of tare to prevent the overloading of engines. The first proposition Ladvance is this the haulage capacity of engine is hould be

The first proposition l'advance is this illate the haulage capacity of enginent should be based on a uniform proportion of fare weight to gross weight behind the tender. In order, that the relative haulage capacity of the different classes of engines may be determined on any given grade the test should be made with the same kind of a train. If not the identical cars, the percentage of tare should be the same. Otherwise the comparison is

TABLE 1.—HAVELOCK SECTION.

HAULAGE CAPACITY (IN TONS) OF LOCOMOTIVES ON FREIGHT TRAINS THE TARE WEIGHT OF WHICH IS 331% OF THE GROSS WEIGHT BEHIND THE TRAINS THE TARE WEIGHT OF WHICH IS 331% OF THE GROSS WEIGHT BEHIND THE TRAINS THE TARE WEIGHT OF WHICH IS 331% OF THE GROSS WEIGHT BEHIND THE TRAINS THE TARE WEIGHT OF WHICH IS 331% OF THE GROSS WEIGHT BEHIND THE TRAINS THE TARE WEIGHT OF WHICH IS 331% OF THE GROSS WEIGHT BEHIND THE TRAINS THE TARE WEIGHT OF WHICH IS 331% OF THE GROSS WEIGHT BEHIND THE TRAINS THE TARE WEIGHT OF WHICH IS 331% OF THE GROSS WEIGHT BEHIND THE TRAINS THE TARE WEIGHT OF WHICH IS 331% OF THE GROSS WEIGHT BEHIND THE TRAINS THE TARE WEIGHT OF WHICH IS 331% OF THE GROSS WEIGHT BEHIND THE TRAINS THE TARE WEIGHT BEHIND THE WEIGHT BEHIND THE WEIGHT BEHIND THE WEIGHT BEHIND THE W

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TABLE 2.-INDEX TO HAULAGE CAPACITY AND DESCRIPTION OF LOCOMOTIVES.

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not fair, as will be readily understood from the neef & grain train illustration. For the same beef & grain train illustration. For the same feason, this uniform percentage of tare should be used in testing the resistance of different grades. Schedules of loads for engines should therefore be based on trains having a uniform percentage of tare. This is what we have done. We adopted the 2 to 1 basis, because we have a large number of cars which weigh about 15 tons, & have a capacity of 30 tons, or 2 to 1. We have very few larger capacity

Therefore, we cannot look cars of our own. for many, if indeed any, trains that would have a lower percentage of tare than one-third. The conditions on some other railways may; be such that they should adopt, for instance, a 3 to 1 basis. If so, they can make up their schedule of loads & compile their charts on that basis.

The second proposition is, that having determined the haulage capacity of engines with trains having this uniform percentage of tare,

termining the comparative res train, & that engines should be ingly. This is accomplished which is compiled on the basis power is required to move the in empties than in loaded cars load This 30% is a point which I anti-would hear about, & in reference to to say that this method of rating & engines is in use as yet only on our iE

TABLE 3. INDEX TO HAULAGE CAPACITY AND DESCRIPTION OF LOCOMOTIVES.

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117 148	60		300 311	80	Acres to the Control of		115	Cox.C	739 740 115	T 111 (4.25)
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157 (10		W.S. I	316/320	14():		- 507	1 50	8 W.S	711 1140	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Four driving wheels, coupled with four-wheel truck. switcher.

-six

with two-wheel truck.

Art.-Four driving wheels compled with four-wheel truck and one pair idlers

under firebox.

CON—Eight driving wheels, coupled with two-wheel truck.

S — Single expansion or "simple."

C —Double expansion or "compound."

TABLE 4. - RATINGS AND RULES FOR LOADING LOCOMOTIVES IN FREIGHT SERVICE.

Conditions	Ordinary	Bad Rail or Temperature 10' Above to 20' Below Zero	Temperature Colder Phants 20 Below Zero
Class of Rating	Ordinary Fast Freight Trains Freight Trains	Ordinary Fast Freight Trains, Ereight Trains C D	Ordinary Freight Trains Freight Trains
Reductions From Schedule Loads	Nii. 2	7 . 12	12 13

Such regular trains as may be so designated by Superintendents, and any train with ten or more cars of live stock, provisions and perishab as will be rated as "Fast Frequent Trains."

Superintendents may, in special cases other than those provided for herein, authorize a special rating.

The loads for engines during show and wind storms will be determined at time according to conditions.

In making deductions for "Temperature" or "Bad Rail" the probable conditions over ruling grade and not at starting point, must be considered. The where tare is not stencilled on cars the following estimated weights will be used:—

• .	- 117 13	iele file is hat stancing on ours the tane.		Optimization in aniinten in an an an an an			Tour
		Tons	L,-	• •	Tons.	Coaches, Wide.	
-8	East	Box 10) :	35 Feet Conl 30 Tons	. 475	" Narrow Vestibule	3 - 3 - S
20	11	Box or Stock		35 " " 40 "	. 17	Natrow vestimes.	· 計画等 250
30	- 1	0 13		Empty Oil Tank	. 15	" Ordinary Platform	。 如門繼續
33		· · · · · · · · · · · · · · · · · · ·		Derrick and Tool, Etc		Colonist	- 10 77 5 - 17
. 34				Flangers		Tourist in the state of th	
- 35	•••	3. 3		Large Snow Plow		Wide Vestibule	37
33	**	Palace Horse 2		Small " "		Mail and Smoking	********
50		- 19	,			Bacrage and Smoking 10 - 20 miles	102 100
35	44	Refrigerators, Pass 29		Caboose		Box Baggage	
'35		" Fr'1 18		Official, Long		the contract of the state of the contract of t	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
33		Ventilator	3.	Short		Short was the same and	
10	,* H.	Furniture	5.	Sleepers, Wide Vestibule	3.		TO 70 ST 10
	£ 6 ,	10	9	Narrow "		of the control of the	1.74 to 2.75 to 2.75
- 29		Flats	S	Ordinary Platform	. 40	· · · · · · · · · · · · · · · · · · ·	-Ser-30-39
20		**	g	Parlor, Wide Vestibule	51	Shorts for saint	120
, J		44	ó i	" Narrow "	424	Mail and Express 100g Short Baggage, Mail and Express, Long Short	30
33	44		2	" Ordinary Platform	· . 10	Shore	经验证的 企
- 35		Coal	0	Dining	· · · · · · · · · · · · · · · · · · ·	The second secon	
3.		· Annier versiere ver		billing to a mount shall not count	State of the first		Station Server

1,000 to 2,000 pounds-inclusive shall count as one ton, less than 1,000 pounds shall not count.

A Flanger working is to be rated at 100 tons.

The loads for locomotives may be exceeded up to 15 tons, if by doing so another loaded ear may be taken.

The schedules of loads are for use with prescribed chart for calculating loads for locomotives according to princation of time to grow the formula of the country of the country

ines, on which the controlling grades; except in a few instances, are about 1%, & as we desired to avoid complicating the new method at the outset, by having more than one chart, we have as yet only put in use a chart compiled on this 30% basis. I am well aware that the percentage of additional power required to move the same tonnage in empty as in loaded cars, loaded 2 to 1, decreases as the grade increases. The rolling friction does grade increases. The rolling friction does not increase, while the resistance due to gravity does, &, therefore, the percentage of additional power required is not constant. have in mind, & I may say in hand, several charts for use on the different sections according to the ruling grades thereon. I think that when we put these in use, we will have overcome the only difficulties that we have encountered in connection with this system. We have found that 30% is too much on grades heavier than 1% & not enough on easier grades.

Mr. Daly has raised a point as to speed of freight trains on grades. The 7 miles per hour is the speed over summits, & 1 freely admit that where trains are thick more ton-nage can be moved with lighter loads & faster speed than by loading engines to the limit, with resulting long occupation of track, especially on grades. Such conditions are local, & have to be dealt with as you find them. This point, moreover, does not affect the two pro-

positions I have advanced.

As to testing engines, we determined the . relative haulage capacity of the different classes of engines, as far as we could, on one grade, using a dynamometer car, not by one, but by a great many tests of each class-not with engines that were all in good condition, with good firemen & good coal, but with engines & men as they came along, & then we took what we thought was a fair average. Having determined the relative haulage capacity of the different classes of locomotives on this one grade we then, by testing one or more classes of engines on the other portion of the line—also with the dynamometer oar-were able to fix the haulage capacity of all classes of engines over all parts of the line.

Mr. Chairman, with your kind permission, I will resume my seat, & later on, if I have the privilege, I will say something in explanation of the second portion of the paper respecting the supervision of the loading of

F. POTTER-1 would like to ask in what office the comparative figures are kept & what increase of office force is necessary; also what is the increased train load above the old method brought about by the new method?

The CHAIRMAN-Prof. Hibbard, can you favor us with any remarks on this question?

PROF. H. W. HIBBARD-I would like simply to call attention to a paper read before the Northwest Railway Club in Dec., 1895, by H. H. Vaughan, on the hauling capacity of locomotives, the paper being discussed at the Feb. meeting, 1896; I have just been reading over that paper & discussion. Possibly some of the members may have the numbers in their files & would be glad to refer to

I notice in the discussion some remarks of N. Barr, that I thought were in point. He said: In the midst of all this discussion, about how we could increase our trains hauled & how the motive power department had increased the number & hard-working of its locomotives, all the brunt of increased train loads & cheapening of freight transportation seemed to have fallen upon the motive power department; but if the civil engineering department would do a little something to help out, that little something that they might do would be a very important assistance. He said further: "You talk about hauling your trains up these grades. Why not take our some of those grades? Why not fix up some of those curves, & so on?" It seems to me we need more of co-operation between the civil department & the mechanical department & the department that loads 60,000 lbs. capacity cars with only 20,000 or 30,000 lbs. If all the departments would co-operate we would accomplish more than by simply our-

selves bearing all the brunt.

G. L. FOWLER-1 was speaking the other day with the general manager of a road that probably hauls the largest average net tonnage of any road in the world, & he said that in his original report to his board of directors, when the matter of reducing grades & easing off curves came up, it would be cheaper to put & maintain pushing engines on those grades to help up the hills than it would be topay the interest on the increased investment required to ease the grades & the curves. And at the risk of repeating perhaps some-thing that you are all familiar with, I will state in regard to this same road, which is the Bessemer Line, from North Bessemer to Conneart, I had the pleasure recently of going over it very carefully, & noting their tonnage rating & method of operation. They have moguls & consolidation engines hading their trains, & they have a system of tonnage rating there by which they take a car in units, as they call it. A unit, on their schedule, is 13,000 lbs., which is the weight of the lightest flat car which they have on the line. course their traffic is almost entirely conduct-

ed in steel cars of 100,000 lbs. capacity. They have a rating for their consolidation a mogul locomotives of 430 & 400 units each. Thatis about 40 cars of about 100,000 lbs. capacity. But in their line from Albion to North-Besse mer they have six hills, according to my re-collection, & on each one of these they put pushing engines. On one of them they put two. Their schedule time for a freightetrain two. Their schedule time for a freight trains over the division, which is about 150 miles; is about 12 hours, & they maintain that speed clear through. The work that they do with pushing engines covers 27% of the total mile age of the road, & even on their climb up from Conneaut Harbor, where they have those largest engines in the world, with 24 by 122 in, evilinders, they but 10 cars on behind. 32 in. cylinders, they put 30 cars on behind them & then give the engine a 10-wheel pusher of the help up the first hill. But that train goes through practically without any break from Connectification North Barranage. from Conneaut Harbor to North Bessemer; their estimate is that they use only about half as many engines to carry the traffic through, using the pushers on the hills, that they would if they left each engine to a tonnage basis which they could carry over the controlling grades & let them go through with the trains without any assistance whatever. That this is a sensible method of operation is evidenced from the fact that, according to their own statement, they have the largest average net paying tonnage of any railway which reports to the Interstate Commerce Commission, & that practically means of any in the world. Their average net paying tonnage is between 900 & 1,000 tons. One month, I remember, it was 949 tons. That includes everything That includes everything that goes over their lines behind a freight engine. If an engine goes over the road with a caboose car behind it, that is a train with no net tonnage, &, of course, that cuts down the average rate. Their expense of operation. is phenomenally low, so low that most railway managers look at them with a good deal Possibly some of you may be as of envy. familiar with this line as I am.

J. S. EATON—May I ask Mr. Fowler a

question? He speaks of their having the largest net tonnage. Does he mean per train? If so, does his second engine count for a second train? Does he include the return mileage light of road engines & helpers

in computing his train mileage?

G. L. FOWLER-I do not think it includes the return mileage of the helper, but it includes light trains. As I said, if the engine goes over the road with nothing behind it but a caboose, that is a train with no net tonnage, so that if it is averaged up with a train that has 2,000 tons net behind the engine, the average net tonnage would be 1,000, & that

TABLE 5.-CANADIAN PACIFIC RAILWAY.

DAILY REPORT OF HAULAGE CAPACITY OF LOCOMOTIVES AND TONNAGE OF FREIGHT TRAINS OVER RULING GRADES ON HAVELOCK SECTION, NOVEMBER 187, 1900. DIRECTION OF BALANCE OF TONNAGE EAST.

	<u> </u>			Loc	OMOTIVE		TONN	AGE OVE	RULING C	RADE.		
THAIN.	FROM	TO	No.	Schedule Haulage Capacity, Tons.	Class of Rating	Net Schedule Haulage Capa- city, Tons.	Contents.	Tare.	Total Actual.	Equivalent Tonnage.	COAL USED.	REMARKS.
Extra	n	Smith's Fall	707 739 725 723 705 706 713	1,008 1,008 1,008 1,008 1,008 1,008 1,008	"A" "A" "A" "A" "A" "A"	1,008 1,008 1,008 1,008 1,008 908 1,008	532 400 382 127 480 297 537	416 513 464 487 473 513 423 3,289	948 913 846 914 953 810 900	998 1,003 922 1,004 1,020 918 1,007 6,872	6 6 5 5 6.5 5 6.5	Live stock and To- ronto shed freight Dressed beef and provisions.

Percentage of Total Equivalent Tonnage taken to Net Schedule Hanlage Capacity over Ruling Grades, 100.

Norg.—Under the old "actinal formage," method of loading engines, these engines would each have been scheduled at "A" rating to take 913 actual tons through over the section, or a total for the seven engines to at "B" rating, of 6,280 tons, whereas under the new method they brought 6,341 tons through over the section—a gain of 135 tons, or 163 tons, or 163 tons are train.

If the proportion of tare had been Rue-third on each train, this power would have taken 6,856 tons through over the section—or 512 tons more than through.

Ontario Division Bridges. The Board of Railway Commissioners has approved plans for the following bridge work:-Havelock section, mileage 99.3 and 99.4, reinforcement of present spans. Toronto section, mileage 15.4 and 24.3, reinforcement of present spans: mileage 83.4, clearance diagram; 96.8, material for 100 ft, deck span. section, mileage 11.8, clearance diagram and material for 100 ft, deck plate girder. sor section, mileage 2.9, abutment and ironwork; mileage 4.1, clearance diagram. Teeswater section, mileage 29, 35-4, 35-45, clearance diagrams.

An order has been issued by the Railway Commissioners authorizing the C.P.R. to construct a steel bridge under the highway between concessions 2 and 3 London tp., Ont., and to close up a portion of the present highway, a diversion to be made so as to carry the

road over the bridge.

November 1904

A CHRISTMAS STORY

(Reprinted from Herald Press Graphic)

OF THIS STORY THE LATE SIR WILLIAM VAN Horne is the hero, and I shall endeavor to reproduce the scenes as be so cleverly sketched them to me in his home one winter night, the while we smoked the after-dinner cigar. Picture then a Christmas eve in Toronto, crowds of shoppers abroad in the brilliantly illuminated thoroughfares, and Sir William Van Horne walking down Yonge Street towards the station in a magnificent fur-lined overcoat with a sable collar. Yes, he was proud of the figure he cut in that coat—he admitted it. It was one he had bought within the hour in a Toronto store. He was going back to Montreal and, as often happened in those days, he travelled with the passengers instead of in a special car. When he got on the train, prior to going to the smoking-room, he threw off his new coat and threw it over the back of his seat. There he left it.

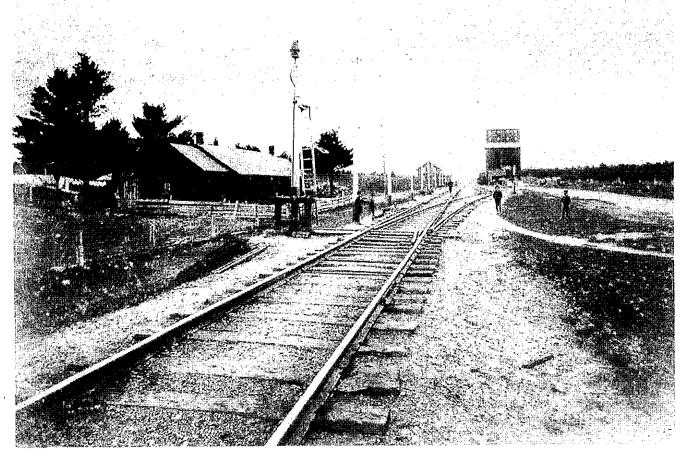
There ends Act. I. And there began the troubles of the evening.

All alone the C.P.R. president's overcoat occupied the

president's seat. Sir William did not come near it until the train pulled up at Burketon Junction, and then he only gave it a passing glance as he rushed through the car, in a hurry to get out and see the station agent. When he returned the overcoat was gone. Sir William raised a rumpus. He cross-examined the conductor, and called in the trainmen. They could give no explanation of the disappearance. Sir William was inconsolable. His beautiful coat was gone—the handsomest coat he had ever had! The only clue to it that could be discovered was that supplied by a passenger, who said that when the train stopped at Burketon Falls he saw a man passing through the carriage with a coat on his arm.

- "Did he get off the train?" asked the president.
- "Really, I couldn't say."
- "What sort of a man was he?"
- "I haven't the least idea. I was reading at the time and didn't take much notice of him."

By the president's orders, the train was pulled up at a



The Canadian Pacific Railway station at Burketon Ontario as it appeared when photographed on May 5 1898 by company photographer J. W. Heckman. Except for the time of year, it must have looked the same on that long-ago Christmas Eve when President Van Horne noticed his coat missing as the train left that same location.

C.P. Rail Corporate Archives, photo No. A-20524.

wayside station, and a wire was sent back to Burketon Falls to put the police on the track of any man seen wearing a black, furlined overcoat with a sable collar.

Then Sir William, in his democratic way, strolled forward to the baggage car to hunt out another coat from his baggage. As he passed through the third-class coach, he saw a man sitting there wearing an overcoat remarkably like the one he had lost. But the collar was turned up and be could not be sure. He scrutinized the man carefully and passed on to the end of the car. Then he turned back through the car and gazed fixedly into the man's face.

The man turned troubled eyes to the president and quickly averted his gaze from the piercing scrutiny. In that glance the president knew him to be guilty. He leaned over the man and said in a low voice: "Come forward with me to the baggage car."

"What for?" asked the man obstinately.

"Because I say you've got to," replied the president, "unless you want a fuss made before the other passengers?" The man got up and followed the president without another word. The conductor, at a sign from the president, also followed.

"Now," said the president, sternly, when the baggage car was reached, "where did you get that overcoat?"

The man looked at his questioner sheepishly.

"I don't see that I'm bound to tell you," he answered.

He was evidently a laboring man, and was overshadowed and subdued by the president's manner. His face was bronzed and weather-beaten; it was by no means the face of a criminal. He looked like one of the great army of workers who, by labor with pick and shovel and axe, spend their lives in conquering the wilderness for their fellow-men.

With a quick movement the president slipped his fingers into the breast pocket of the coat and pulled out a silk handkerchief. On one corner of this were his own initials.

"Do you know to whom that belongs?" asked the president, shaking the handkerchief threateningly in the man's face.

" No."

"That handkerchief belongs to me, and that overcoat you've got on belongs to me. Now do you know what I'm going to do with you? I'm going to hand you over to the police at the next station."

"Oh, for God's sake, don't do that, sir" exclaimed the man, almost in tears.

He stripped off the overcoat and held it out.

"Here's your overcoat. I didn't mean to steal it. I saw it lying on the seat, and I thought some passenger had got out and forgotten it. Really, sir, I never meant to steal it!"

"If you didn't mean to steal it, why didn't you hand it to the conductor?"

"I thought if I didn't take it somebody else would. I looked on it as a stroke of luck, that's all."

"Well, you'll find it a stroke of bad luck for you, my man!"
"Get a policeman as soon as we get into Bethany Junction," he said to the conductor. "I'll look after this man meanwhile."

"My God, sir! don't do it!" pleaded the man. "It'll drive

my poor wife crazy. I haven't been home for six months — been railroading back in the bush. She and the little ones are expecting me fot Christmas."

"Where do you live?"

"At Peterborough."

"What's your name?"

"Kennedy."

"I suppose you've got four or five little ones looking forward to your coming home Christmas?" asked the president, sarcastically.

"Yes, sir." Tears came in the man's eyes; a choking sob burst from him.

"Shut up, you snivelling coward!" roared the president. To see the man actually in tears angered him beyond measure.

The brakes were already grinding on the wheels. The man put his hand on the president's arm, "Don't do it, sir," he said. "I don't ask it for myself, but for my wife and youngsters. There's no harm done. You've got your coat."

The president shook him off roughly. "You common thieves," he said — and the words cut the laborer like a knife — "you common thieves are always afraid to face the music. You always snivel about your wife and family at home when you're found out. But I've made up my mind to stop your little games on this railroad and by Gum, I'll do it?" "Jump out and get a policeman," he said to the conductor, as the train came to a standstill.

A few minutes afterwards the conductor returned with a policeman, and the man, silent and dejected, was marched off into the dark night in custody.

When the train started off again for Montreal the president rode in the baggage car. He sat on the top of a pile of boxes, quietly smoking a cigar and dangling his feet. His gaze was fixed on a new perambulator, but it was a long time before he really saw it. When the conductor came in he nodded toward the perambulator, and remarked: "Seasonable present, eh?"

"Yes, sir, a very useful sort of article," replied the conductor.

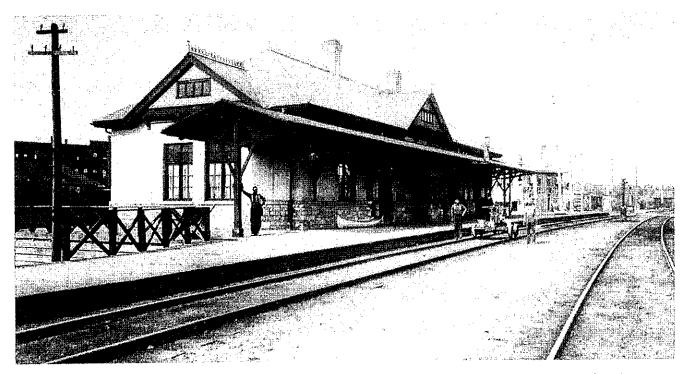
"But what I want to know," replied the president, "is why anybody should buy a wheeled baby carriage at this time of the year. A man bought that, for sure. A woman would have bought one with runners at this time of the year.

"Of course she would," replied the conductor. "But the man must have had a busy time shopping, mustn't he? There's a rocking horse in the baby carriage; there's a toboggan; there's a turkey, and, oh — dozen of things. It'll be a pretty happy Christmas wherever that baby carriage and its load is going,"

"Yes, a carriage for the new baby, and lots of presents for a pretty healthy little family, by the look of it."

The label on the baby-carriage caught the eye of the conductor. He lifted it with his thumb and forefinger, and bent over to look at it. Then he dropped it as though it burned his fingers, and turned to the president with something like consternation in his face.

"What does it say?" asked the president. "Why man, anybody would think it was dynamite with a live fuse attached to



C.P.R. station at Peterborough Ontario on May 10 1899, photographed by J. W. Heckman. It was here that Mr. Kennedy was reunited with his family on a Christmas Eve not long before this photo was taken.

C.P. Rail Corporate Archives, photo No. A-20511.

look at you. What's on the label, anyway?"

"It says John Kennedy, Peterborough."

"Holy Caesar!" exclaimed the president, springing to his feet. "Why that's the man who took my overcoat—the man I had arrested!"

"Yes, sir."

The president stood for a long time looking at his cigar. He recalled the pitiful pleadings of the man — his pale, agonized face, the unmanly tears.

"It'll drive my poor wife crazy," the man had said. "I haven't been home for six months — been railroading back in the bush. She and the little uns have been expecting me for Christmas."

Sir William thought of his own wife and family in his luxurious home in Montreal. They were waiting for him this Christmas eve, he knew, waiting and counting up the hours before he would return. Yet he had only been away two weeks. As a contrast he pictured some humble little home in Peterborough where a poor woman, who had not seen her husband for six months, was waiting this Christmas eve for his arrival. She would have scrubbed up the house till it looked as clean as a new pin. She would have a dainty meal ready for her husband and the president's imagination added the domestic touch of a kettle singing on the stove. She would have put clean clothes on the little children, and probably at this moment, was telling them for the hundredth time, "Your father's coming home!" And the little children! Surely they were dancing about the house and saying, "Daddy's coming! Daddy's coming!" He knew what little children were! Lastly came a stinging thought. The baby carriage was probably meant for a new baby that the father had never seen.

The president began to repent. After all, what had the man done! Probably he really thought the overcoat was lost, and had

picked it up just the same as a man might pick up a ten-dollar bill on the floor of a hotel, feeling he might as well have it as anybody else.

When the train got to the next station, Sir William jumped out and walked into the little station house.

"Give me that key," he said to the astonished operator. The president had been an operator in his early days, he at once sat down at the telegraph instrument and gave the call for Bethany Junction. When he got through to that place he sent a message that considerably surprised the operator at the other end.

"Get Kennedy, the man arrested this evening, released immediately. His arrest a regrettable mistake. Get out an engine and one car and immediately run a special through to Peterborough. Kennedy must get there to-night."

"By whose orders?" asked the operator at the other end.

"By order of the president, William Van Horne," was the reply.

At Peterborough station that night a woman named Kennedy, with a baby in her arms, and three or four little ones flocking around her, was considerably astonished to hear an important looking gentleman, who stepped from the train on which she had expected her husband, inquiring for her by name.

"Is Mrs. Kennedy here?" roared Sir William.

"Yes, sir," said the woman timidly. "I'm Mrs. Kennedy."

"Your husband is coming along on the next train," said Sir William.

"He'll be here in a couple of hours. Here, let me shake your hand and wish you a Merry Christmas, God bless you, ma'am! God bless you!"

He jumped on the train and was gone.

And in the hand that the president had shaken Mrs. Kennedy found a Christmas present. It was a twenty dollar bill! -

Source: Pembroke Standard, Dec. 15, 1915.

A RAILWAY THROUGH THE KAWARTHAS

The Ontario & Québec Railway

David Hales

Photographs by the Author

ven though Canada's main line railways are generally given all the glory and arbitrarily take all the praise just as if it were their proper due, the many branch lines which criss-cross our country have a character and an importance, as well as a significance of their own.

One railway that might be selected for examination, out of the many which merit consideration, is CP RAIL's Havelock Subdivision, from Glen Tay, west of Smiths Falls and Perth, Ontario, to Kennedy, about 12 miles northeast of the Queen City of Toronto. This line was built under the charter powers of the Ontario and Québec Railway Company in 1883-84 and was leased to the Canadian Pacific Railway Company for 999 years from January, 1884. The O&Q was the Canadian Pacific's successful attempt to break the monopoly on passenger and freight traffic between southern Ontario and Montréal which, prior to that time, had been held by the Grand Trunk Railway Company of Canada.

The Ontario & Québec was originally incorporated in 1871 to construct a line of railway between Toronto and Ottawa, via Peterborough, Madoc and Carleton Place, but it was not until 1881, with George Stephen and Duncan McIntyre - both of whom were directors of the Canadian Pacific Railway Company in the same year - among the directors of the Ontario & Québec, that construction actually began.

Initially, the O&Q was built from West Toronto to Perth, Ontario, connecting at the latter town with Duncan McIntyre's Canada Central Railway from Smiths Falls, Carleton Place and Ottawa. Access to Montréal was obtained by a bridge over the Ottawa to Hull and a connection there with the Québec, Montréal, Ottawa and Occidental Railway, today CP RAIL's "North Shore Line" between Ottawa and Montréal.

The Ontario & Québec was opened for business in May 1884 but, as it was already leased to the CPR, it never purchased any rolling stock or motive power. This was all furnished by the lessor, some of it being sub-let from the Canada Central Railway. What did it matter? The revenues all went into the same pocket, that of the CPR.

RAIL

The total length of the O&Q's main line from West Toronto to Perth was 184.1 miles, some of it hard going, as it meandered across the scenic Lake Ontario escarpment. It was likely these operating difficulties, together with the lack of population in the territory through which it ran that encouraged the CPR to look for an alternate location for its Toronto-Montréal main line and this it found early in 1913.

The new "Lakeshore Line", via Bowmanville, Port Hope and Belleville, was completed in 1914. Parallelling the Grand Trunk for the distance from east of Bowmanville to east of Belleville, it then swept north from the lakeshore to a junction with the O&Q at Glen Tay. The distance from West Toronto to Perth via this new route was still 185.4 miles, but the curves were easier and the grades less steep. And the centres of population along the track were larger.

When the "Lakeshore Line" was opened for traffic, the O&Q lost much of its main-line status. Today, the only active portion of the Ontario and Québec is that from Kennedy (Toronto) to Tweed, Ontario, 31.2 miles east of Havelock.

Reasonably soon after the main line of the O&Q was opened for business, the Canadian Pacific began building branches to the north and west: to Lindsay and Bobcaygeon; to Orillia and Port McNicoll on Georgian Bay. Another branch was built from Havelock to Blue Mountain, via Nephton, but this was not added until the 1950s, 1954, to be precise. The Port McNicoll Subdivision left the O&Q at Bethany Junction (Dranoel) and the Bobcaygeon Subdivision branches off at Burketon Junction (Burketon). Today, only the Lindsay and Nephton branches still have train service, with the employees' timetable showing "No regular trains".

Speaking of junctions along the line, one of the more unique was the encounter with the Kingston and Pembroke Railway at Sharbot Lake. Once a comparatively busy station on the O&Q, nothing but memories remain today.

An interesting feature of the service to Bobcaygeon between the wars was what was sometimes described as the "Bobcaygeon Special". This was a summer only, weekend service direct from Toronto to Bobcaygeon, on the shores of Sturgeon Lake, one of the most beautiful of the Kawarthas. The train always departed from Toronto Union Station, but, at one time, the return service on Sunday night operated via North Toronto.

Initially, there were two night passenger trains each way over the O&Q, one from West Toronto to Montréal and the other from Toronto Union Station to Ottawa, via Carleton Place. The former service was a victim of the "Depression Years" and the latter made its last

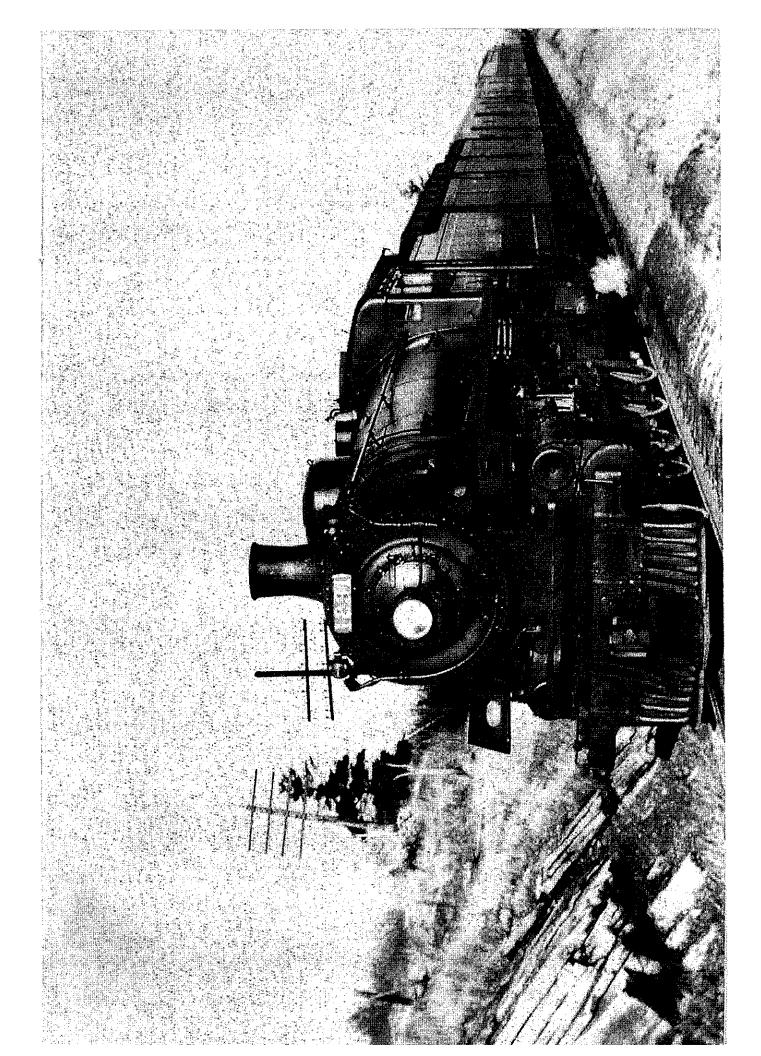


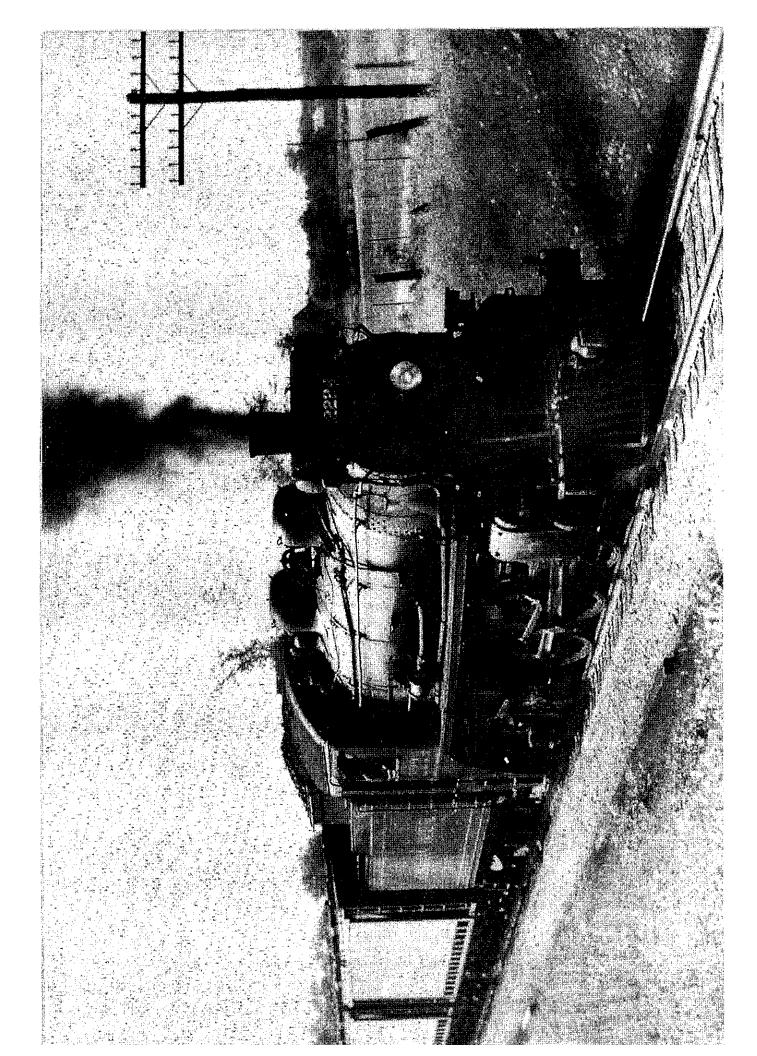
IN THE DAYS OF STEAM, CANADIAN PACIFIC ENGINE NUMBER 1231 WAS THE MOtive power on Train 35 At Kaladar, Ontario. 8 December 1952.

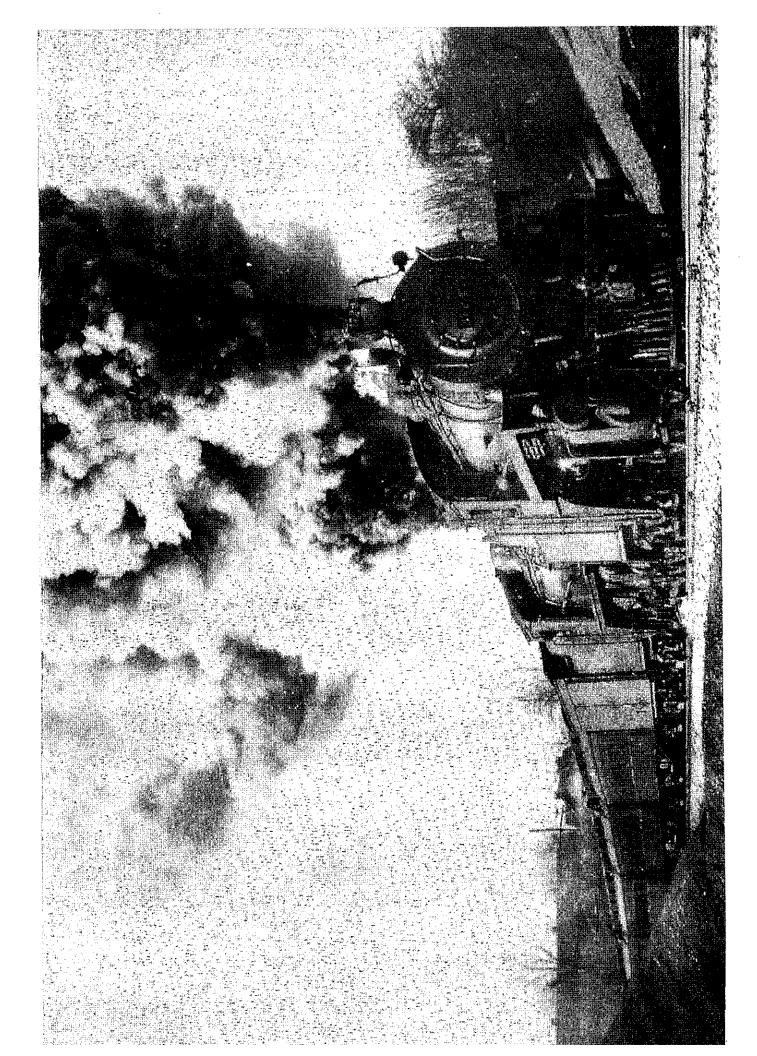
Photo Paterson-George Collection

CPR 4-6-2 NUMBER 2224 HEADED AN EXTRA FREIGHT AT HAVELOCK ON AUGUST 9, 1958, before the line was dieselized. Photo Paterson-George Coll.

TRAIN 36 OF CANADIAN PACIFIC, FOR PETERBOROUGH AND HAVELOCK, STORMED up the hill through Leaside, Ontario on a day in 1940, powered by engines Numbers 3724 and 2200. Photo Paterson-George Collection.







CANADIAN

TIME TABLE No. 41, APRIL 29th, 1973

WESTWARD TRAINS INFERIOR DIRECTION					HAVELOCK			EASTWARD TRAINS SUPERIOR DIRECTION					
SECOND	CLASS	FIRST	CLASS	ĭay	SUBDIVISION			FIRST	CLASS	FOURTH	CLASS		
	91	383	381	Miles from Glon Yay	· · · · · · · · · · · · · · · · · · ·	Train Order Office Signals	pacify	380	382	90			
	Freight Daily	Passanger Sun, only	Passengar Dally ax, Sun.	Hilos (STATIONS	Train	Car Capacity Sidings	Passenger Dailty ex, Sun.	Passenger Sun. only	Freight Daily			
		,,		62.5			43						
				66.4			Nii		•••••				
	.,,,,,,,		,,,	71.8	ivan i oe		38	*********					
		.,		80.4	BONARLAWZ		39			••••••	• • • • • • • • • • • • • • • • • • • •		
				89.7	BLAIRTON		38						
	1900	1645	0510	93.7	HAVELOOK KZ	S	96	1900	2259	0130			
.,,,,,,,,,,	1915	F1655	F0520	99.8	ОО 🚧 оор		42	F1850	F2247	0120			
	1940	£1707	F0532	108.2	INDIAN RIVER		44	F1840	F2235	0105			
	1959	81720	80545	118.0	PETERBORO KZ	ЯО	20	#1825	\$2220	0040			
	2014	P1733	F0558	127.0	OAŸÄN		42	¥1806	F2209	0010			
	2023	F1742	P0607	132.4	Jet. Bobcaygeou Sub.	 	Nii	F1759	F2200	0001			
		F1748	F0613	135.2	MANVERS		Nil	F1754	F2154				
	2037	F1754	F0619	139-1	PONTYPOOL		3B	F1748	F2148	2345	•••••		
	2054	F1806	F0631	148.0	BURKETON		35	F1736	F2136	2330	•••••		
	2124	F1818	F0643	157.3	Мүйды		37	F1724	F2124	2315			
	2140	F1824	F0649	161.0	DAGMAR		Nil	P1719	F2119	2305			
	2211	F1832	F0657	166.2	OLARŽÍNOMT		30	F1711	F2111	2255			
	2225	F1842	10707	173.7	Looner HILL		III	F1710	F2101	2245			
	2235	1850	0715	178.9	TAPSCOTTRZ	2	Yard-	1653	2053	2235			
			ļ	180-3	Toron'i'ô Yardokw	YA	Yard			[<i>.</i>			
				[81.5	U (BRIVILEY		Yard			}	•••••		
		81855	80720	181.6	AGINCOURTF	GN		\$1648	\$2048	J			
		1857	0722	182.4	U KENNEDY			1646	2046	<u> </u>			
	Dally	Sun. enty	Dally ex, Sun.		Ruic 93a applies.			Dally ex, Sun.	Sun, only	Oally			
	91	383	381		Rules 41 and 44 apply between Havelock and Tweed.			380	382	90			

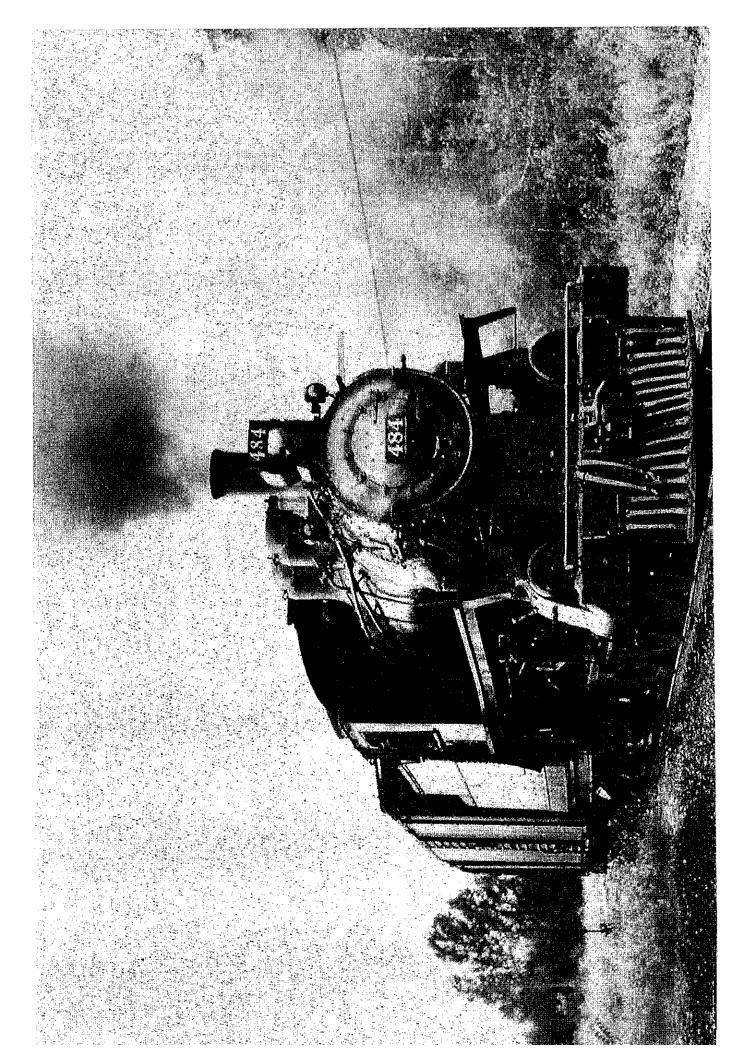
run at the conclusion of the "Pool-Train" service with Canadian National Railways in 1965.

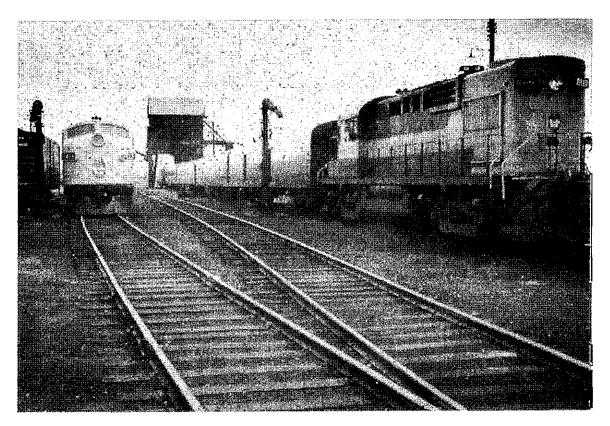
In addition to the through trains, passenger services provided by the O&Q over the main line included a Toronto-Tweed local, which was subsequently cut back to Peterborough. The run was afterwards extended to Havelock in 1958, when the steam-hauled passenger train was replaced by BUDD RDC "Dayliners".

In the post-World War II era, there were as many as five passenger trains each way daily on the O&Q, despite its quasi-branch-line status. These included the Havelock-Bobcaygeon mixed, which rattled over the 18.1 miles to Lindsay.

CANADIAN PACIFIC TEN-WHEELER NUMBER 484 WAS THE POWER FOR THE MIXED train at Bobcaygeon, Ontario, on a day in July 1959.

Photo Paterson-George Collection.





THE YARD AT HAVELOCK, ONTARIO, IN OCTOBER 1959 BOASTED OF TWO PASSENger trains on weekends. On the right is Canadian Pacific Railway Train 35-36, the Sunday-only passenger to and from Toronto. On the left is the Toronto-Peterborough-Havelock local. Not surprisingly, in 1973 the coal chute no longer exists.

Daytime passenger services used to consist of one through train from Toronto to Montréal, which ran until April 1960, and later, a curious service between Toronto and Ottawa, which ran for three months only in 1965-66. Local services were provided between Toronto Union Station, Peterborough and Mavelock. For the most part, this service continued until 1958 on approximately the following schedule:

7.10 a.m. LV Peterborough AR 8.40 p.m. 9.15 a.m. AR Toronto Union LV 6.30 p.m.

After 1958, the passenger trains terminated at Havelock, 24.3 miles east of Peterborough, presumably for operating reasons, as the crews were paid mileage. From 1954 to 1969, an additional passenger service was provided by a fast Budd RDC "Dayliner" run of 80 minutes for the 76.4 miles between Toronto Union and Peterborough.

Today's passenger services on the former O&Q consist of a two-car RDC "Dayliner" train, with the majority of passengers travelling to Toronto from the suburban areas served by the railway. But the weekend passengers to the Kawartha Lakes area account for the largest portion of the passenger-miles. On holiday weekends, the consist of this train is usually augmented to three RDC "Dayliners".

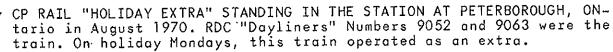
Over the years, the major portion of on-line freight traffic has consisted of a large volume of the mineral, nepheline syenite, from the mine and plant of International Chemical Corporation (Canada) Limited at Nephton, Ontario, 16.3 miles northwest of Havelock on the Nephton Subdivision. Today, the freight run between Toronto Yard and Havelock is made behind a trio of DRS 10 & 12-class units.

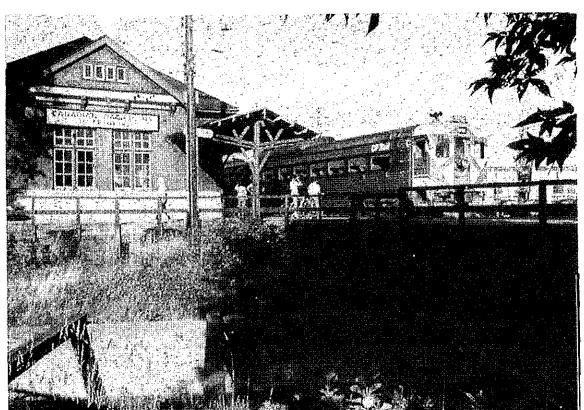
Frequently in winter, a DRS 18 appears in the lash-up. Although it is not indicated in the timecard, there is still a daily freight service from Havelock to Tweed, 31.2 grass-grown miles further east, with forest products forming the largest part of the freight traffic.

The O&Q's operating history has not been without incident. In each of the last two years, service has been interrupted by severe snowstorms in the winter months. In June 1972, there was a traintruck collision at a level crossing, which put the two-car RDC "Dayliner" train in the ditch. The lead unit, Number 9052, had its underframe broken so badly that the unit was scrapped.

While Canadian Pacific Railway RDC "Dayliners" first appeared on the O&Q with the introduction of the fast service to Toronto in 1954, today it is hard to say what the future holds for the remaining portions of this pioneer line. The proposed new jumbo-jet airport at Pickering will probably take over a good part of the right-of-way around Claremont and anything which remains in this area will be engulfed by the new satellite city, expected to be built to the south.

There is a trend in this age away from the megalopolis to smaller and less complex centres, with necessary and desirable transportation corridors to the core of the city. GO TRANSIT, with its coordinated passenger services, seems to be evidence of this inclination. If this concept is adopted, it is reasonable to suppose that at least a part of the historic Ontario and Québec Railway will con-





tinue to survive and to offer its important services to the travellers in this part of Ontario.

- AT THE "END OF THE TRACK" AT HAVELOCK, ONTARIO, CP RAIL KEPT A SElection of power for the freight trains. Units Numbers 8164, 8762 and 8144 burble in the sunlight.
- ONE UNLUCKY DAY 17 JUNE 1972 TRAIN 381 COMPOSED OF RDC "DAYLINERS" Numbers 9052 and 9057 was hit by a truck at a level crossing near Peterborough. The point of impact on the side of the first unit is very obvious. RDC Number 9052 was afterwards scrapped.

NEPHELINE SYENITE IS LOADED INTO COVERED HOPPERS AT THE NEPHTON MINE of International Chemical Corporation at Nephton, Ontario. The adjacent boxcars are used for other commodities to and from the mine.

