ALONE IN THE WINTER WOODS,

A Railway Explorer's Adventures in the Wilds of Ontaria.

Early in 1874 I was two hundred and fifty miles north of Lake Superior in charge of fifty-three men and twenty dog teams, engaged in exploring a path for the Canadian Pacific Railway. My line had been run to about twenty miles from its starting point when an order came that I should survey, to their northerly sources, if possible all lakes and streams touched on the route.

As this would be a difficult task, I left my transit-man in charge of the main trail, and went back with a small party to "traverse the waters we had passed.

I had been working on this for some time when our stock of provisions ran low. We were then some thirty miles north of the camp where my transit man would probably be. A very diffcult, broken country lay between us.

I held my men to work as long as I dared, hoping to complete the traverse of the stream I was surveying; but one night, when the thermometer stood at twenty-five degrees below zero, it became clear that there was nothing for it but to start for the main line next morning in order to get food.



This might perhaps be found at some cache of provisions much nearer us than my transit-man's camp, for such caches were intended to be maintained about five miles apart on the main line for the use of dog-teams passing up or down.

When I called "Camp" that night, the men used their snow-shoes to shovel out a hole over which to place our tent. While some covered the remaining snow with birch bed, others laid in a stock of fire wood and a pile of birch bark with which to start the blaze. But when I ordered the lighting of the fire, we found there was but one match | safe ! left in the party!

The men were afraid to take the responsibility of striking it. They insisted I should do so. A strong wind was blowing it out; but cross again? No! Probably over and eddying through the woods. took the match and bent down in lee of the | day. snow thrown up from the camp.

If the match failed, we should have to walk all night to keep ourselves from freezing.

Bay coat for an unfrozen surface to strike | knife, but two matches. on, whilst the men stood by as if waiting for an execution. When the tiny flame rest instead of tramping all night around blazed, they thrust bits of birch bark to it some tree to keep myself warm. so eagerly that it was almost put out.

into shouts of relief. Well might we, for a birch with my tomahawk, cut it into and the consequent development of the it was not impossible that we should all three long lengths and "niggered" these gold fields of that region and Mashonaland, have perished had we been unlucky with each into two by turning them on the coals. | undisturbed by Lobengula's raiders. When that match.

Early next morning I ordered the men to set out for the nearest cache on the main trail. It was between ten and fifteen miles from where we stood. If they found pro. them to a blaze. Again I breakfasted alone, abandoned gold workings where the action vision there, they were to return at once. and resumed my lonely way over fallen of the romance passed. Now that Mash. Otherwise they were to push on for my timber, hills and rocks. transit-man's camp. I would wait for them till the following day at noon, and if they failed to return, would follow as best I might.

That day I was engaged in keeping up my fire and writing up my notes. Though the men had not returned at night I felt no anxiety. The food they had left would last three days. It was true that I had no matches, but the weather had moderated.

I meant to strike across country next morning for my transit-man's camp, and I did not suppose that I should be out alone and without fire for more than one night on the way.

As my men had not arrived next day at noon, I concluded that, finding no provisions nearer, they had gone on to camp as agreed. My pack was soon made of blanket and overcoat. I carried tomahawk, tea-ean and drinking-cup in my eash. Then with my little satchel of notebooks slung over my shoulder, I started straight for the point where I expected to find my party.

The course took me to a lake of which I knew something, and I diverged a little to | truded. have the advantage of travelling on the ice down a long bay and outlet stream of which I had heard from an Indian. The sun was obscured all day, and yet I was so perfectly sure I was right that I went along the ragged coast without once consulting my compass.

About four o'clock in the afternoon I was | there. astonished to hear the sound of a waterfall. Pushing on, I soon saw the cloud of mist. Then I knew I was off my course. The secret was that there were two outlets, and I had mistaken the smaller for the larger, which begins five miles more to the north, and flows to the falls on a course followed.

a blazing fire that threw its light far out ance on the left foot and plump down strong paper, while the husks and stems of among the tall birches and spruces, I through the hole. I was wholly mistaken, Indian corn have also been tried and al thought I heard a noise of some one coming. | too, as to the depth of the river : by my It could not be my men; they could not be pole the water was nearly seven feet deep! back so soon, and they would come from the If the ice under my left foot should give opposite direction.

It could not be the wind; there was none | lest it should break down. now to stir the branches. Soon the sound

ceased. me. It might be a stray Indian, who suggested itself. would keep me company for the night.

from place to place beyond its rays? was peering in that direction when the backward.

snow was crunched more distinctly and I saw advancing two luminous balls which | the ice around the snag, and then pull it seemed as large as eggs, and of prismatic hear enough to clutch. In this I succeeded colors. Just then a log of the fire fell down, after many minutes' labor. and a fine blaze rose. There stood, but a few yards away, a great moose !

arms, and would not have shot at the grand | conceivable way for perhaps ten minutes. creature in any case. At a slight movement of mine, he uttered something between a woods, and I saw him no more.

In my loneliness I felt the loss of even the animal's company.

been on the north side, there was nothing about sundown. for me to do but to cross the river, or go back to the lake and follow the northerly night, even without a fire, but my pluck to make up for this by giving the hens outlet, or else strike out from the lake and was reinforced, and I resolved to try for more good food, but this does not alone make a bee-line for camp.

There was no crossing below the falls, so and a clear moon. far as I could see, for the banks were high | The line might have gone ahead about and precipitous. To go back to the lake seven miles after I left it, I supposed. But would be a dangerous loss of time. But it it seemed I had been on it for twenty miles appeared not impossible to cross so narrow when the trail led me on and off a long, a stream at the brow of the falls.

had formed an irregular ice-bridge. In the Stooping I found them to be bits of rabbits' centre it was narrowed to about six feet | fur, and I knew some Indian wigwam was wide-simply a mass of frozen foam and probably near.

retrace my steps. As either choice seemed about fifty yards and found the wigwam

at all hazards. trace on the bank. For that purpose I cut for the night. a large chip out of a birch, and wrote on the white wood:

bridge over these falls. If it breaks you | There were two big Indians making snowknow my fate and my name"-which I ap- shoes at one side, and two squaws with an

pended. across. On its edge I loosened the pack and of rabbits' flesh and beaver tail were roastthrew it to the wider bridge beyond, | ing. Then I flung my snow-shoes and satchel across. Next moment I would have given the world to have them back again!

travel without snow-shoes. With a pole to | solemn silence. steady me I advanced, with my heart in my mouth, to the narrow space of frozen foam. It seemed honeycombed, but hard.

ed me, and the sight of the chasm below the | I supposed to be the "mistress of the house." falls made me giddy. I felt my feet crushing the foamy mass; but I dared not spring | "mequitches"—thanks. Again there was on the frail structure. My only hope was bark and then with evergreen twigs for our in going gently, and submitting it to no such | whom I had presented the groceries rose shock as I should give it by a jump.

place was passed in a few seconds-I was I had given her. Then another long silence.

left that message on the tree. I would after sweetening my tea, I returned to her have given a good deal to be able to blot with the usual "mequitch."

In adjusting my snow-shoe strings for the That was a moment of intense anxiety. rest of my journey I missed my knife, but soon remembered that I had put it in my satchel after lunching. Turning out the

I fairly screamed with joy. Now I could

After a frugal supper I did rest well be-But one paper-like bit caught, and im- fore a great fire of branches that I wrested mediately the whole heap of birch bark from dead and living trees. To keep the was flaming, while we are all broke out fire smoldering till morning I hacked down

snow on my blankets. But last night's he had liberally overdrawn his imagination embers still smoldered, and I soon blew for his account of the stately ruins and

About eleven o'clock that morning I cam to what looked like a river about fifty yard wide. When I had nearly crossed it the ice became "glare." The water apparently had risen here over the first ice formed, had



then run along the bank till it swept awa the snow, had then been re-covered with ice, and had finally receded, leaving a shell of ice. Here and there a snag pro-

I did not think from appearances that civilized, and held their ground by their there was deep water under the shell and | military strength as well as by their innear it, but as I advanced I kept poking | genuity. cautiously with my pole. When I was not more than five yards from shore my right snow-shoe broke bodily through as if a great bubble or mere scale of ice had been just

I had time to throw my weight on the sacking or bagging makes a good article. other foot, but there I was stuck. Myright Paper is made out of banana skins, from snow-shoe had turned, and was held under | been stalks, pea vines, cocoanut fiber, clover the ice. I tried every conceivable plan for extracting it, and all in vain.

I dare not try to kick my foot loose from kinds of grass. Paper has been made from the snow-shoe, for if I lost it in the current | hair fur and wool, from asbestos, which almost at right angles to that which I had I could not travel further. I dared not furnishes an article indestructable by fire; lean back to loosen the strings, and so haul from hop plants, from husks of any and Musing on my situation that night before up the shoe, for thus I might lose my bal- every kind of grain. Leaves make a good

worse off than ever, for my left leg was Just as I was crediting it to my imagina- | weakening with the strain. I was at my

But why should be not come boldly into just beyond my reach. I could catch my depending on the kind of paper to be made. the firelight? And why should be move tomahawk's head on the snag, but not firmly, and I dared not pull with so slight

It occured to me that I might chop away

Now I could pull myself free, but dared not try lest I should lose my snow-shoe. He gazed for full five minutes, as if The hold I had enabled me, however, to spellbound by the firelight. I had no fire- move my right foot, which I did in every

At last, when I had almost given up hope, a lucky turn brought the shoe up edgewise, snort and a whistle, wheeled into the dark | and I carefully made my way ashore over the most treacherous of ice.

My right leg was wet nearly to the knee, but the weather was not now very cold. Some distance above the falls both made a fire with my last match, warmed mystreams unite in a long, deep rapid. The | self well, and resumed my journey. Three island between this junction is lofty with hours of precious daylight had been lost, precipitous banks. As I ought to have but I managed to reach the main dog-trail

> There I might have spent the moderate camp that night. There was a good trail

narrow lake. I was so tired that I felt There the spray and snow, advancing that I could go little farther when I hapbroadly from each side during the winter, pened to see some patches in the snow.

I had no choice but to venture on this or | diverging from the trail. These I followed about equally desperate, I resolved to cross | banked up to the middle with snow and cedar bark. A friendly column of smoke If the frail bridge should give way, no ross up from the pointed roof into the clear one would know my fate unless I left some | moonlit air, and there I resolved to stay

I entered, with the everlasting "boshoo" as my salutation, and as the Indian eti-"Feb. 22, 1874. I must cross this ice | quette demands, shook hands all around. old one and two papooses at the other. A Out on the bridge I went till I reached | bright fire blazed on the "caboose," with the narrow place, which was about six feet | some flat stones around it on which pieces |

After the first salute no one took the slightest notice of me. The men went on with their work, and the three squaws look-But now the die was cast. I must go on ed vacantly into the fire. I put off my or soon freeze. It was impossible for me to pack and satchel, and sat for a while in

Then I took out two whole plugs of I tobacco, handed one to each of the men, and gave my whole remaining stock of The roar of the water just below me scar- | sugar and tea to one of the squaws, whom |

This called out all round a series o long silence, after which the squaw to silently, and put some water into a tin can Then all was suddenly over-the perilous with some tea from one of the little bags When the water boiled, she handed me the Now it seemed almost childish to have | can of tea and my little sugar bag, which,

She then pointed to the roast on the hot the penciling remains there unread to this stones, and muttered, "Buckate"-You are hungry. I certainly was, but that mess was too much for me, although I appreciated her hospitality.

I excused myself on some plea or other, and ate instead the remainder of my cheese I loosened my sash and my Hudson's contents of the satchel I found not only the with some biscuit and tea, dividing the remaining biscuit between the two papooses.

MASHONALAND.

Evidences of an Ancient Mace as its Form er Pessessors.

Mr. Rider Haggard is likely to be vindicated by the conquest of Matabeleland Then I put them all on the fire and lay down. | Mr. Haggard published "King Solomon's On awaking I found three inches of new | Mines" a great many readers thought that onaland is being developed, it is found that not only are the ruins there, but the gold. The gold reets extend far up into Matabeleland, and along their extent are evidences that in far-off times they were worked by a civilized, powerful race, who built temples and fortresses quite beyond the constructive capacity that any negrold people has yet

manifested. At Zimbawbe, in Mashonaland, the stately front of a fortress temple rears itself from constructed by trained engineers, who worked on a plan preserving mathematical mines, and explorers have found some o the ingot moulds used by those who toiled there thousands of years ago. As the hawk, the symbol of the goddess Hathor, who in Mashonaland as well as in the Egyptian quarries, the theory of the antiquarians is that there was an Arab-Semitic race once in control of what is now the latest addition to England's possessions in Africa. This race, they hold, may have been subjects of the Queen of Sheba. Whoever they were, they were evidently powerful and highly

Paper can be Made out of Anything.

Paper can be made out of almost anything that can be pounded to pulp. Over fifty kinds of bark are employed, while old and timothy hay, straw, fresh water weeds, sea weeds, and more than 100 different most every kind of moss can be made into paper. There are patents for making paper from sawdust and shavings, from thistles way I was done for. I dared not struggle and thistle-down, from tobacco stalks and tanbark. It is said that there are over At the end of a quarter of an hour I was 2,000 patents in this county covering the manufacture of paper. No matter what the substance, the process is substantially tion, I heard it nearer and almost behind wit's end when a way out of my peril the same. The material is ground to a pulp, then spread thinly over a frame and There was a small snag near, but it was allowed to dry, the subsequent treatment

diggers in Ireland.

THE FARM.

Good Winter Layers.

The most difficult thing to do is to provide proper quarters for the laying hen in the winter time, although some have an idea that this is a simple matter. But the fact is, if the hens are given comfortable quarters in the cold season they will lay almost as many eggs as in the summer, and so very few do this that it is trite to remark that there is a failing somewhere. Given the same food and proper protection in the winter, there is no reason why the egg production should not be as great. The trouble is now that so much of the food digested is required to make animal heat to resist the cold that there is little left for egg making. Some poultry raisers attempt reach the trouble. The winter quarters must be attended to.

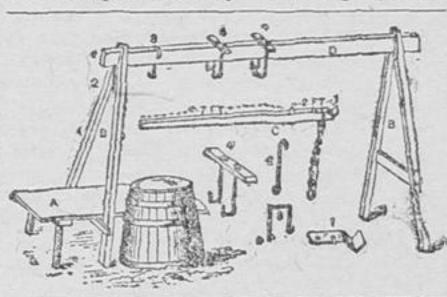
Now the liens must be made comfortable twenty hours in each day, and quarters that will be comfortable for the Plymouth Rocks may be very uncomfortable for the smaller and less heavily feathered Leghorns. The two cannot be placed in the same poultry house in the winter and both be expected to do the best in egg producing. As a rule, however, the climate of the average coultry house is not warm enough Soon I came across new snow-shoe tracks for either breed. We need a complete readjustment of matters, and the construction of such sanitary houses that the poultry will be made entirely comfortable. It would be well even if we could supply artificial heat and good ventilation in the roof. Then the heat could be regulated to suit the de-

mands of the poultry.

But as this seems to be nearly out of the question it is well to consider the best methods that we can now adopt. The floors and sides of the building must be perfectly tight so that no air can circulate through them. Even the trap door through which the birds enter should close so tightly that no draft can come through. If windows are supplied they should be double ones, and all of the wall should be lined with tarred paper and double wooden siding. The house should not be a high one, only as high as a man's head, for if the house is high there will be cold layer of bottom air that will chill the birds. Most of the roosting places should be placed high, for they are always warm compared with the lower ones. They are free from dampness also. Very little ventilation is needed over night in such a place. The ventilation should be placed as high as possible above the roof, and it is better to have a wooden chimney running up several feet, as this will be less liable to cause cold winds. The ventilator should be so arranged that it can be tightly shut or opened so as to give plenty of air. On very cold nights it should be opened only a very little so that the foul air can escape, and on comparatively mild nights it should be opened wider. Early in the morning the house should be thrown all open and thoroughly aired, and just before the birds go to roost at night a good lot of fresh air should be allowed to circulate through the place. The heavy feathered breeds of fowl can stand more ventilation and cold than the other breeds, but a ponltry house properly constructed will do for either. It can be regulated to suit any birds, for all ventilators and entrances are under the control of the owner.

Butchering Outfit.

Farmers who butcher their own hogs in the fall, all know the old way of butchering is very inconvenient and tiresome. The following illustrated arrangment makes the rather in what it has cost to secure that



2x5 inches, and 12 ft. long. The mortises ends of piece, and are 1 inch deep, 21 inches need. wide at bottom, by 13 inches at top, thus only one bolt is needed to hold them together at top. The upright pieces B B are 2x 1 and the jungle. The structure was evidently 7 ft. long; crosspiece, 14x24 and at one end this should be bolted on upright pieces, down thing possible that is needed for home use, low enough so that the bench will set over it. unity throughout. Near by are the gold | Thelever is 31x2 at staple, and shaved down to 13 at end. Staples made of 5-16 inch rod iron, and long enough to clinch. Clevis do buy, you must grow some other thing where chainis fastened is made of \$ inch iron. Fig. 1 is iron, 6x2x1 bent, as shown for gam- side yourself makes the profit on both presided over mines, is found in the ruins | brel stick to rest on, while lifting hog to Fig. | transactions. 4, which is made large enough to slip back and forth easily on upper piece. Rods hinch, bent to hold gambrel stick, Fig. 2 is 2x13 to Fig. 4. Fig. 3, 1 inch iron on which lever rests in scalding. Bench, 19x11 inches, 20 inches high, 8 ft.long. Barrel to set in the ground 1 its length.

Too Many Small Potatoes.

tion of marketable tubers are very small. profit to a loss. This may result from such a drought as widely prevailed last summer, but quite of | each season, you may add materially to the ten it is caused by putting too much seed profits of the stock department of your in the hill. Planting whole potatoes of farm. But it will hardly pay to do it unsome varieties will surely bring a crop near. less you have some good mares to start with. ly all too small to be marketable. There Poor mares bring poor colts, and these are are other kinds which have fewer eyes, and not in any great demand. Be sure if a whole potato be planted not more than | that the mares you breed are sound in body two or three eyes will grow, the others and limb, of a kind disposition, yet spirithaving their substance taken from them to ed and plucky. Then if you have used a make larger growth of those that took the good stallion you will be very apt to secure lead. Cutting the potato in two pieces or a colt that can be readily marketed at a even three and then putting two pieces in price that will warrant all the care thaty ou the hill is another cause of small potatoes. | can bestow. If the grower is entirely sure he has a strong eye with a piece of potato attached it will make a vigorous start, and in most cases produce more marketable potatoes than will a larger amount of seed.

Diseases of Fowls.

Hens are subject to several diseases, but mostly to those of the throat and the intestines. The first class is due to exposure to cold and damp, or to contagion. The latter is the result of bad feeding and indigestion. The most prevalent of the first class of disthat exceedingly contagious. It appears a little too thick."

a thick adherent mucus or cheesy matter in the throat or mouth, stopping the breathing and making the swallowing difficult. The head swells and of course the birds stop eating. The remedy for this disease is to wash the mouth clean with warm vinegar and drop a pinch of powdered chlorate of potash in the throat. The food should be soft, and a little hypo-sulphite of soda should be dissolved in the drinking water. Excessive warmth is not desirable for fowls in the winter, only such as will keep a temperature at night of not less than 50 degrees, Another frequent disease is that of the liver by which the nerves of the lower limbs are so affected that the birds cannot walk. This disease resembles that of pigs by which the hind legs become useless, and are dragged about as the animal moves. Overfeeding is the common cause of this disorder, and the remedy is to stop the cause, giving no food for two or three days, but only water. and then beginning with small feeds, gradually increased.

Tapping Maple Trees.

Maple trees should be tapped with a small auger or bit to fit the metal spouts now used. The barbarous and injurious use of the axe to cut a gash in the trees is to be wholly condemned, as is also the use of the old-fashioned sap troughs, hewed out of small pine logs. The present method is to use the tapping bit, and the metal spouts on which is a hook to hang a tin pail, rounded hollow to fit the tree on the back. and covered to keep out trash and dirt. The finest quality of sugar or syrup may then be made by using one of the evaporators instead of the old-fashioned iron kettle. The sand that settles at the bottom of the syrup is the mineral part of the sap, which, if the sap had become wood, would be the ashes of the wood. It is mostly lime, potash, and silica, the ash of the maple having 60 per cent. of lime, 5 per cent of silica, and 12 per cent. of potash in it, and as the wood is made up of the solid part of the sap. it is, of course, of the same composition. And thus the residue of the sap boiling must be the same as the ash of

Good Corned Beef.

To have good corned beef in the summer it is necessary to use some precautions. The following method is used by the best packers. The meat is first steeped for two or three days in a weak brine to remove all the blood and liquid serum. The barrel is then well soaked with boiling hot water two or three times, the meat is packed in the barrel, and is covered with brine made in this way: For each 100 lbs. of meat take 9 lbs. of salt, 2 lbs. of sugar, 2 ounces of saltpetre and six gallons of clean rain water. Boil the water and dissolve these in it, let the brine cool and skim it, and then bring it to a boil again, then skim it once more, and pour it on the meat. To keep the meat in the summer the brine must be drawn off and boiled and strained and skimmed, and while boiling hot turned on to the meat. It is this heat of the brine that kills the germs that would otherwise cause the meat to spoil.

Practical Pointers.

With every animal raised on the farm whether for milk, meat or for breeding again in turn, early maturity is one of the conditions that have a direct bearing on the profit. Work toward this all the;

The profit in an animal fed for market does not always lie in its heavy weight, but labor comparative easy. The top piece is weight. Other things being equal, the animal that is fed up to a good full standard is the most profitable.

Unless you feed so well that your stock makes a constant gain, you are losing yout feed at least and probably something more. Keep your eye open all the time to note any possible loss of appetite, as that will quickly be followed by a loss of flesh.

Uniformity of feeding is required in order to keep the cows up to a uniform production Every time that they fall back a little, it will require twice the ordinary feeding and care to bring them back to the former standard. Keep them from shrinking by for B B to fit in, are made 5 inches from he | the closest possible attention to their every

> It is a bad habit to get to thinking that you can buy this product or that, which you need for use in your own family, as cheaply as you can grow it. Produce everyand so save the middle-man's profit on both that which you would have to sell and that which you would have to buy. For if you with which to pay the bill, and someone be-

The growing of early lambs is a nice business when one is properly fitted up for it. It requires good, warn, housing and a knowlinches long, on which lever rests while lifting edge of some of the finer phases of feeding. The two items to aim at are, earliness and good weight, giving a variety of food and taking care not to undo your work by overfeeding. As soon as the lambs are in marketable condition, rush them off without further delay, as a few days will often make In far too many potato crops the propor- such a change in the price as to reduce the

If you can raise one or two good colts

Too Remote to Uffend.

He-" They say that the light from that tar takes 250 years to reach the earth." She-"Oh, in that case, I guess there is no need for me to get offended at its winking at me the way it does.'

Rather Overdoing It-

"I believe in trying to put as good a face as possible on everything in times like these Maria," said Mr. Billus, looking again at the bill that had just been brought in, "but A vein of mineral wax which resembles eases is one known as croup, which is very it does seem to me that \$3.75 for complex-Now I heard the sound to my left, and a hold for fear of losing it and falling pure butter has been discovered by peat similar to the human diphtheria, and like ion wash in one month is putting it on a