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# Eight Routes 

 To the $\longrightarrow$ Klondyke. By WALTER MOBERLY, C.E.Entered according to Act of Parliament of Canada, at the Department of Agiculture, by The Colonist Printing and Publishing Company, Limited, of Winnipeg, Manitoba.


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## EIGHT ROUTES

- good stores in e, or call while


## The



With Tables of Distances, Cost of Outfits, Map of<br>Routes, and other Information

## Complied and Edited by

## WALTER MOBERLY, CE.

For sixteen years engaged In exploratory and engineering work on the Pacific Coast Mountain. ranges for the Imperial and Dominion Governments, and the Canadian
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## Introductory.

Since the first great Californian gold excitement of '49, there have been a series of rich "strikes," generally in the most unexpected quarters of the world, nearly always in the most remote, and never at more than one place at a time. The Californian discoveries were succeeded a little later by even richer discoveries in Australia, these again by those in the Caribou district of British Columbia, while quite recently the attention of the world was attracted to the marvellous free-milling propositions of the Transvaal, and still more recently to the sensational discoveries of Western Australia. Each of these districts has in turn been the great gold producer of the day, though under very different conditions. California's, Australia's and the Caribou's rich days were the results of placer diggings, while the Rand, which speedily became the greatest producing gold field in the world, as well as Western Australia, the scene of a still later activity, were only free-milling gold fields, where individual miners with nothing but their pluck and their muscle had no opportunity of acquiring a fortune excepting in the speculative occupation of "prospecting." Indeed, since the days of the diggings on the Caribou, there has beenreally no great discovery of a field where any man with a few supplies has the opportunity of delving his fortune out of the soil in perhaps a few months, until the most recent discovery of all-and the one that promises to be also the greatest -the rich placer deposits on the Upper Yukon, and its tributaries. Former discoveries have been rich, and also inaccessible, but this latest one is apparently the richest, as it is the most inaccessible of all. It appears to be the fate of all rich gold fields that they shall be attended by many natural obstacles in the way of climate and situation. It is probably just as well for the adventurous men who are willing to face these obstacles that it is so, for were such enormous wealth as the deposits of the Klondyke to be situated within easy reach, the rush thither would be so overwhelming that a very small percentage of the crowd would have any chance of securing a prize. Under the present conditions the number of miners in the Klondyke must be enormously diminished by the difficulty and expense of getting there, and therefore these very obstacles become an advantage to those who have the pluck and the endurance necessary to reach the remote region. At the same time, though only comparatively a few can go, all the world is intensely interested, and everyone wants to know more about this extraordinary source of incalculable wealth in the inhospitable regions of Arctic America; and,
therefore a handbook such as this will be welcome to just as many people who have no idea of going there, as to those who are perhaps already making preparations to undertake the journey next spring.

This little pamphlet on the Klondyke has been compiled from the most reliable sources of information extant. It is, as will be seen, edited by a man who has had more active personal experience of exploration and travel in the Northern ranges of the Rocky Mountains than any man living, and, therefore, we have no hesitation in claiming for it a greater degree of reliability than any publication that has as yet been issued on the subject. Mr. Moberly has had at his command all the available information concerning this little explored region, and this, added to his own personal knowledge of the subject, has enabled him to produce a host reliable guide to any one contemplating a journey to the Klondyke. The object has been not so much to add testimony to the already overwhelming evidence that the Klondyke is the richest guld field of the world, as to furnish definite and reliable information of the kind that will be of most value to all who have made up their minds to go there, or are still discussing within themselves the advisability of undertaking the adventure.
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## Eight Routes to the Klondyke.

Up to the present there are only two or three regularly travelled routes to the Yukon placer fields, and all of them to a greater or less extent within the United States territory, owing to the anomalous direction of the undefined international boundry line from Mt. St. Elias southward along the Pacific Coast. These are, of course, viapthe Pacific Ocean ; but for half a century or more the hardy and indomitable servants of the Hudson's Bay Company have had regular routes of travel across the mountains from the East. Our object is to furnish a concise and accurate description of every known route. These descriptions have been compiled from information gathered from many sources, but principally from ex-officials and employees of the Hudson's Bay Company, old prospectors and traders, from the official reports of Government explorers and surveyers and from missionaries, who have spent many years in these almost unknown regions.

We find then that the gold seeker has his choice of eight different routes by which he may reach the Klondyke, namely :

1. By St. Michael's and the Yukon river.
2. By Juneau to Dyea and the Chilkoot or White Pass.
3. By the Stickeen river, Telegraph creek and Teslin lake.
4. Takou inlet.
5. Edmonton, the Yellow Head Pass and Giscome Portage.
6. Revelstoke and Cariboo.
7. Edmonton and the Liard river.
$x$. The McKenzie and Porcupine rivers.
The starting points are Victoria, Revelstoke or Edmonton, all on the Canadian Pacific Railway; we mention Victoria in preference to the American ports to the south because by outfitting at that place the traveller will avoid having to pay duty on the goods he takes to the Yukon country. Winnipeg aight almost be called the starting point for all but the Pacific Coast routes, as on account of it being the distributing point for the whole North-west, much that would be required could be purchased to better advantage at that point than at the smaller western towns.

However this question will be more fully discussed under the heading of "Where to outfit."

Before entering upon a detailed description of each route we might say that the gold-seeker should be guided in his choice of road by several important considerations, the most important being the state of his finances. He should also consider which route is most suitable to travel at the season of the ear when he proposes to start, also whether he intends to make direct for the Klondyke, or whether he wishes to travel through an auriferous country and prospect by the way.

Another question worthy of consideration is the size of the party, and whether the members of it are experienced in mountain travel. A "tender-
foot " party without an experienced guide should not think of attempting ans but the Pacific Coast routes. "Prysicial fitness" is also a matter to be taken into account in coming to a decision on this important question.

For the sake of convenience in making comparisons as to distances and cos by these different ways, we have taken Winnipeg as a basis on account of it: central position on the Canadian Pacific Railway-a comparison of distance: and cost by each route will be found further on.

## The St. Michael's Route.

This is the luxurious expensive way of reaching the gold fields-railroac and steamboats all the way-but until many more steamers are plying from Victoria it will be but few who can avail themselves of it. The great drawback. and to many an insurmountable one, is that the steamship companies will not carry more than 150 lbs . of baggage for each person-the reason of this being that they do a trading business of which they have practically a monopoly.
'hus a miner going to St. Michael's must have a long purse to enable him to buy his supplies when he reaches his destination. He also runs the risk of arriving at a time when there is a shortage of "grub" and famine prices are prevailing. Should this route be selected a passage would have to be booked some time in advance.

This route is named after an o'd Russian Fort on an island in the Pacific, So miles outside the mouth of the Yukon River. Travellers by this route take the train at Winnipeg and go through to Victoria $\mathrm{x}, 600$ miles, taking there a steamer for Unalaska, or Duteh Harbor, on one of the Alleutian Islands, 2,000 miles from Victoria. There the steamer enters Behring Sea and continues in its icy waters for 750 miles to St. Michael's, where the traveller takes a flat bottomed river steamer, and after a passage of 80 miles in North Sound, enters the mouth of the Yukon, up which he is carried on the steamer 1,800 miles to Dawson City, over 6,200 miles from Winnipeg liy this circuitous route. The cost of passage with berths and meals between Winnipeg and Dawson City is $\$ 250$, at the very lowest estimate, being $\$ 200$ from Victoria. It is plain thit this is the most convenient route, but for all it is by no means a desirable onc. As the Yukon mouth is choked by drift ice till July, and as ice sets in again in September, two round trips are all that can be depended on in one season. Besides this, landing at St. Michael's is often difficult and sometimes impossible, while the passage of 80 miles from there to the Yukon on a river steamer is by all counted a dangerous trip. With the exception of the portion on the high seas and the last 175 miles or so on the Yukon, this route lies entirely within United Stat 1 s territory.
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## The Dyea Route.

To date this is the most popular route if the number of people passing over it is taken as indicating popularity. Boarding a steamer at Victoria the traveller proceeds to Juneau, Alaska, some 900 miles, changing there to a smaller steamer and continuing the journey 100 miles further on to Dyen, at the head of Dyea or Taiya Inlet. From this place to the headwaters of the Lewis, the Wcstern branch of the Yukon, the distance is only 23 miles, via Chilkoot Pass, or some 50 miles via White lass, aud of these two the Chilkoot has been the principal route of travel. The summit of this pass is just about 3,500 feet over tide-water, rather less than 16 miles distant, and $\mathbf{I}, 378$ feet over Lake Linderman, 8 miles distant, to the northeast. All travellers agree as to the main points when des sriling this mountain pass. The following descriptinn of the journey is taken from a letter by L. R. Mc Kenzie, with a party of Manitobans:


#### Abstract

"The first six miles travelled were along a river, with the road running from one bank to the other and a very hard path to get along; sand and boulders, with from six inches to two feet of water, with a very swift current. The balance of the distance to the canyon is over boulders with fair footing. This is the end of the wagon road, and you then take to the woods and begin the mountain climb, going up and up until the river-looks like a silver thread," helow. After leaving Sheep Camp we began to reach a few of the "high spots" right up in the clouds. For one thousand feet we had to stick "our toe nails in for all we were worth," and take stens from fonr to six inches. I will not undertake to say how deep the snow is. When the top was reached the descent begun and if one lost his footing he was liable to go several hundred feet before recovering his equilibrium. There are six miles of this snow travelling. It is a hard looking path. The last six miles are not so bad. but t s rough as one wants. If you see anyone intending to come to the Yukon by this rynte tell them if they cannot pay for transportation on the portage "don't come."


This gives a clear idea of what the Chilkoot pass is like, and it is well to state that the track used by travellers is some seven miles longer than the one measured by Ogilvie, being more winding for the sake of somewhat easier grades and better footholds.

But short as this pass is, it is a most expensive piece of road for the miner having goods to freight across. The Chilkoot Indians are the only parties packing supplies over the pass. They are a wealthy tribe, independent and even insolent. Their present rate from Dyea to Linderman is 25 cents a pound, while it is feared the price may go higher. Now, if a miner goes fairly well supplied he must take with him at least 1000 pounds of goods, and paying 25 cents a pound means a charge of $\$ 250.00$ for freighting his goods a distance of 23 to 30 miles.

When Linderman is reached the traveller must either purchase a boat, there being a small sawmill and boat builders at that place, or go to work and fell timber, rip it into boards and build his own boat. A looat capable of carrying two or three men and their supplies can be purchased here for $\$ 75$, but a great many whose purses are not overstocked will doubtless continue to
find the material and construct the boat themselves. In this connection it might be said that timber for boatbuilding is getting scarce in the immediate vicinity of the lake.

The boat being secured, it is comparatively plain sailing to the land of go'd-to Dawson, 552.64 miles further on. In all this distance only two or three portages have to be made. The first one is across the neck of land separating Lake linderman and Lake Bemnett. A stream connects them, but is too shallow for navigation at most seasons. The second portage is through the canyon 58 of a mile long, and two miles further on past the White Horse Rupids $3 / 3$ of a mile long. The canyon may be run at high water, but the White Horse Rapids are unsafe for boats. 'The miners do their portaging on the west side of the river, and have made the place convenient for that purpase These dangerous phaces are some 35 or 40 miles below the foot of Marsh Lake. 'The other rapids in the way are Five Finger Rapids and the Rink Rapids, close together, and about 150 miles below the foot of lake Lebarge. But neither of these are considered dangerous by Mr. Ogilvie ; ordinary watchfulness being all that is required to run them with safety. The former are formed by several islands in the river, and the iatter by a barrier of rocks extending into the middle of the river from the western shore. The only care here is to hug the eastern shore while passing.

## THE WHITE PASS,

So named by Mr. Ogilvie in honor of the late Hon. Thos. White, then Minister of the Interior. It follo ws the same general direction through the coast ranges as the Chilkoot, but a few miles further south and east. It commences about two miles south from Dyea and foliows the Skagway river to its source and then down another stream emptying into a western arm of Tagish Lake. lirom here is a clear, unbroken navigation, connecting with the Chilkoot route at Lake Nares, between Iake Bennett and Marsh Lake. This pass is about 50 miles long and no where as steep or rough as the other, in proof of which the summit of White l'ass is by Mr. Ogilvie stated to be only some 2,500 feet over tidewater, or about 1,000 feet lower than Chilcoot Pass, while double the length, giving apparently an easy slope right through. Some work has been done on the road over the White Pass, and it would now be a fairly practicable road for pack animals when frost is in the ground, aithough then there is great danger from the slippiness of the narrow path round the mountains. In wet weather, horses and their loads frequently go over the edge and that is the last of them ; until this road is improved it cannot be classed as practicable.

Should this route be taken it would be advisable to take pack animals by steamboat from Victoria, and a good supply of horse shoes and nails should be inchuded in the outfit for this journey. One important point to remember when outfitting is that goods are taken from Dyea in bond to the international boundary and that therefore the packages cannot be opened en route so an assortment of provisions should be taken in separate packages to last the traveller over this part of the journey. Information as to quantities for this purpose can be had from the outfitters at Victoria.
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## WHEN TO 00.

The proper time to leave Winnipeg, for parties intending to take either Dyea or the White Pass routes, is about the middle of March. They ald then be over the coast range and have their boats built, on the lakes, by time the ice breaks up and would then reach the diygings in June.
River distances on the Chilkoot route are figured thus: Total length of iver traversed to Dawson City, 452 mi'es ; total length of lakes traversed, 95 niles ; total length of all rapids on route 2.7 miles ; thtal fall in rapids, $3^{2}$ feet ; otal fall on river route from Lake Linderman to Dawson City, about $\mathbf{1}, 300$ eet-in 547 miles, or an average of less than $21 / 2$ feet of fall to the mile.

## The Stickeen River Route.

Traveliers to the Klondyke have not as yet taken this route, though ossibly it is the easiest from the Pacific Coast. The Stickeen is a large river, avigable for steamers for about 150 miles from tidewater, to a place called 'elegraph Creek. It enters the Pia ific Ocean near Wrangell Island and is for few miles up within United States territory, but the freedom of the river for avigation purposes is guaranteed all British subjects by treaty, so that, for all ractical puposes, this may be considered an all-Canadian route. From 'elegraph creek, the head of the steamboat navigation, is a distance of 150 ules to 'Teslin iake. This portage of 150 miles is over a practically level ableland, indeed ly explorers considered as a very fiat country. An old pack fail runs from Telegraph Creek the entire distance to Teslin Lake, and nother eastward to Dease Lake, the centre of the Cassiar mining region. Jesiring to open this route, to relieve the congested and dangerous 1 yea Pass, he British Columbia government sent an engineer to explore it early last pring. And so favorable was his report, dated July 8th, that steps were at ince taken to opsin the route, and a force of men sent to improve the old pack rail and make it passable for freight wagons. At the same time a company vas formed for building steamers to p'y between Fort Wrangell and Telegraph Creek. Two of these and a large barge for freight are now being constructed ind will be ready as will also the road to 'Tes'in Lake, by the time the spring ush to the Yukon sets in, say in March next. The Canadian Pacific Railway Jompany intend to run first-class steamers to Fort Wrangell, and possibly :onstruct a narrow guage railway from Telegraph Creek to Teslin Lake.

Teslin Lake is a narrow body of water, about 150 miles long, lying in a vide valley surrounded by hills. From the north end of the lake springs the Ceslin river (the miners call it Hootalimyua River) and flows northwestward in wide sweeping valley for some 175 miles to its junction with the Lewis River,
about 32 miles below Lake Lebarge. There are no known obstructions navigation for steamers on Teslin Lake and River, while in the Lewis, belfd th the Teslin, the only rapids met with are the five finger and the Rink Rapionet a and which even a tyro is with ordinary care able to pass in safety.

What is unquestionably in favor of this route is the fact that whent, bar; and vegetables are successfully grown at Telegraph Creek and in the vicinixpedi as reported by Dr. Dawson, chief of the geological survey department. Dawson went up the Stickcen in 1886, taking from Telegraph Creck Dease Lake pack trail, and continuing on to the Pelly, down which he went its confluence with the Lewis, where he met Mr. Ogilvie, who had come over the Chilkoot Pass. In his report Mr. Dawson expresses the opinion th vegetables might be grown throughout the entire tableland between Telegral Creek to Teslin Lake, along the shores of the lake and down throug the valley of the Teslin River. If this were done health-giving vegetable fot could be guaranteed the Yukon miners, if not all the year around, at lea during the greater portion of it, and at reasonable prices. In view of this i: well this district will be opened up to the public by the spring season of 18

## Takou Inlet Route.

This may yet become a practicable route, but as yet but little is known it, and until more information is available it would not be wise for partics attempt to take freight in by the Takou.

The following particulars are from Frank F. Meyers, who went through July, 1897 :
"The entrance to this inlet is ten or twelve miles south of Juneau, and navigable for the largest ocean vessel a distance of eighteen miles, to the nou of the 'Takou River. This river is navigable by canoe at all stages of the wat
for a distance of fifty three miles to Nahkina River, where land travel has begin. A distance of seventy miles must be traversed before Lake Teslin-one the chain of lakes which form the head waters of the Yukon can be reached boat with comparative ease. The total distance from Juneau to Lake Teslin 150 miles. The Yukon River is navigable for vessels of light draugl except during freshets, which last about a month and usually occur in June. going up the river in July our party found no difficulty. the shallowest wat being about two feet in midchannel. The Indians who took us up the river so it is open from May to the middle of September for canoes carrying from two four tons of freight. The wind during the summer is from the southwes1 "1 saiiz were used on the canoe, which greatly assisted in working up against a $f, 1$ mile surrent. At the end of the fourth day the mouth of the Nahkina river wa reached. From here we started for Lake Teslin on foot accompunied in a Indian guide and two paclers. The course was up this stream until אitun Creek was reached, which was followed four or five miles. Then we startint in northwesterly direction over a low range of mountains, forming a beantiful 11
wn obstructions in the Lewis, bel d the Rink Rapid safety. $t$ that wheat, bar and in the vicin department. elegraph Creek n which he went who had conie es the opinion th between Telegral nd down thrould ving vegetable fo ear around, at lea In view of this it ing season of 18
nilulating country. According to the Indians with us the snow in winter only Ins here to a depth of from 18 to 24 inches. The vegetation was most luxuriant d thousands ot head of stock could subsist. The country all the way from the pidet abounds with game, such as cariboo, deer, ground-hog, grouse, etc. In Ret it was so plentiful that all a person wonld require in the way of an outfit is a ;un, Hour and salt. The rivers and small lakes are alive with fish. Several ravieties of herries were also found in great quantities. The object of our ixpedition was to explore this section, as well as to find a new route. On our leturn we followed the mountain range and devoted considerable attention to rospecting. but found no very encouraging prospects. On one or two small treams gold was found. but not in sufficient quantity to work. No thorough rospecting was done, as our supplies were running short. However, with the pening up of this section, so that supplies can be taken in at reasomable rates, wages can be made by hundreds of men on the various streams drained by the kou, and also on the small strears which empty into the lakes. On these kes the mining season is much longer and more work conld be accomplished."

## The Revelstoke Route and the Yellow Head Pass Route.

The following description is written with the intention of showing how the prospector may make his way through the Great Mineral belt of British Culumbia and the Headwaters of the Pelly-Yukon.

It is not claimed that there is at present any practicable route of travel through the country here described to the Klondyke, but there undoubtedly is a route to be made at comparatively small cost for pack horses and over which a railroad could be constructed which would run through the gold belt all the way. It is probable that many prospectors who have studied the gold country of the West and who are heading for the Klondyke will look to this route which offers the best chance for rich discoveries en route.

The localities where gold has so far been found in quantities and where mining is still actively followed are about Rossland-several places in the neighborhood of Fort Steel, in the country adjacent to Rock Creek on the Shimilkomeen river and its tributary, Whip-saw Creek, in the Slocan, Trout Lake, Lardeaux cou: * , Kootenay Lake, in the big bend of the Columbia River, in Cariboo, about the Omenica and Findlay and head waters of the Peace River, in the Cassiar country, and now apparently richest of all in the Klondyke district, which embraces a distance end to end of about 1,650 miles equal to the entire length of Europe.

Between the junction of the Findlay and Peace Rivers and Klondyke is a vast extent of this mineral belt, about 900 miles in length, that has not as yet been prospected and for those going to Klondyke with pack animals this unexplored portion of the mineral belt offers a fine field for prospecting. The principal difficuity they will have to contend with will be the want of a trail for pack animals beyond the Omenica River, that is if they start from any point along the Cariboo wagon road.

For parties starting from Edmonton, if they go by the Yellow Head to the Tete Jeune Cache, on the Fraser River, they will not find much di culty between those two points, a distance of about 300 miles, as a good pa trail was opened over this line so far during the surveys for the C.P.R. 1872-3, and a good trail was also opened from Kamloops to the Tete Ju Cache by the valleys of the North Thompson and Albreda Rivers.

From Tete Jeune Cache to the Ciscome Portage, a distance of about 1 miles would be through a timbered country, along the banks of the Fras River, as no pack trail has as yet been opened over this portion of the rout The better and quicker way would be for the prospectors to take along wit them a whip-saw, nails, etc., and construct boats at Tete Jeune Cache in whis to convey their goods to (riscome Portage and drive their unloaded animi through the woods. They could thus without any great amount of difficult provided they knew how to handle boats and to manage pack animals, rean the junction of the Findlay and the Peace Rivers, and would ensure themselve thus far an almost level route to travel. The route from Edmonton via Ath basea Landing and Peace River, which would reach the same point, viz., th fork of the Findlay and Peace, would be much rougher and more dangerou
S. Cunningham, who has frequently travelled by the trail via lakes Anne, Sturgeon Lake to Dunvegan on the the Peace River, gives the distance in days as follows: Lake St. Anne to Athabasea River at the Junction Macleod, four days; Little Smoky, four days ; Sturgeon Lake, three day: Big Smoky, three days; Spirit River, three days; Dunvegan, two days.

The Athabasca has generally to be rafted or boated across, the Litt Smoky is aiways fordable and the Big Smoky generally so. There is ver little muskeg and a good deal of open country along this trail. Macleod Lak and Buck Lake across the Athabasca and Shining Bark Lake, between th Macleod and Athabasca are good fishing lakes; also Sturgeon Iake.

A route from Edmonton to Fort Macleod can also be had by an old trai through the Pine River Pass. This trail is represented as being through very rough and broken country. From the forks of the Findlay and Beace Rivers over the only divide between Rossland and Klondyke (a distance 0 about 1,650 miles), is the only point on this long and nearly level route wher we anticipate serious difficulty may be encountered for a raitway, but as the line is in a direction parallel to all the great mountain ranges, it will," believe, not present anything like the difficulties that the C. I'. R. had to cor: tend with either in the Rocky or Selkirk ranges. The great point to keep if view is that the route of this Northwestern thoroughfare should keep in anc through the mineral belt and not deviate from the course delineated on the accompanying map. From the forks of the Findlay and Peace the ronte would be over a practically unexplored country to Francis Lake, but it is not believed that there would be any great difficulties to encounter. From Lake Francis to Dawson is described in the Liard Route. The following from reliable sources will give some idea of the prospects en route. In the senate committee of investigation at Ottawa in 1888 , Bishop Clut said: "There is gold in the sand banks of the Peace river and in considerable quantities, but during the winter and in high water it cannot be mined. The miners make from $\$_{18}$ to $\$ 20$ per day. There is copper, and one river bears the name of
e Yellow Head ot find much d iles, as a good ma s for the C.P.R. to the Tete Jew Rivers. stance of about panks of the Fras ortion of the rout to take along wis une Cache in whi unloaded anime mount of difficult pack animals, reae 1 ensure themsely dmonton via Ath me point, viz., t d more dangerou trail via lake gives the distanc it the Junction Lake, three days , two days.
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had by an old trai being through indlay and l'eac ke (a distance 0 level route wher cailway, but as the anges, it will, " P. R. had to cor point to keep it ould keep in anc delineated on the Peace the routt ake, but it is not ter. From Lake de following from aid: "There is le quantities, luut he miners make ears the name of

Copper Mine River. It is found there in great quantities. 1 have scen little crosses made out of it hy the savages themselves when they were not able to have other material. The sulphur abounds in several places.

## W. T. Fitzgerald, of Seattle, who prospected in the Ominica and Upper

 Peace River regions last season, says:"We took up 2,500 acres of placer ground along the Peace River. At a depth of 18 feet we struck bed rock and found the ground to prospect 8300 to the cubic yard, and in some instances as high as stino were obtained. The largest results were obtained on the river bars. The gold is coarse and is what is termed barley yold with occasional nuggets worth from $\$ 11$ to $\$ 16$."

From "Vancouver World," Sept. 3rd, 1897, the personal experience of James Orr, ex-M.P.P., one of the Cariboo pioneers, is well worth hearing.
"Landing at Williams Creek in 189\%. when that famons creek was in its glory as a producer, Mr. Orr becane one of the owners of the Caledonia and was bookkeeper for that company. In fifteen months they took out one-half a million dollars-they took out 8,500 from $\overline{5}$ (five! pans of gravel. The prize pan being $\$ 1.6 \times 0$. This was in 1863 . Out of the Caledonia, which was 67 feet to led rock, the best paying dirt was about two feet on bed rock and the vein was often 150 feet wide. The "Never sweat" was adjoining and washed up every day from (i) to 200 ozs. "Beauregard" as high as 801 " ozs. "A day. "New York" from 150 to 200 ozs . "Moffats" over $\$ 300,000$ taken out of 160 ft . square which was the size of the Cariboo claims. The McLean claim was next but not so rich. The "Tinker" with 3:h feet of ground paid in divideuds over sion,000. The "Watty" a small claim next paid Sin,uo. The "Cameron" claims next cleaned up over a $\$ 1.000,000$. The "Rabby" $\$ 900,00$, "Deal Broke," so,0"". Below are some short but rich claims. "The Prince of Wales." paici light interests, half a million. Above the "Caledonia" the "Lilloct," and "Cariboo." were very rich. The "Aurora." with its 14 interests paid in dividends after all expenses were paid ahout $\$ 39,910$ per interest. On the "Dillon" two men working on the windlass and two underground took ont in ten hours 120 pounds of gold. In all over $\$ 200000$ was paid in dividends to the three interests in this clain. A bove the "Black Jack." which was rich the "Windup" was a rich faction. From "Canyon" to "Prince of Wales" on up to the "Saw Mill" the "Erickson Nigger" and others paid from 825,000 to $\$ 50,001$ to the interest. Dozens of other claims along old Williams Creek paid enormously, and the Creek never received, says Mr. Orr, credit for nearly all of its enormons output, it being generally said that the sum of $\& 25,410,010$ was taken out of one and a half miles. Mr. Orr says it was twice that amount. In any case it was such a creek as was never before struck and so far the Klondyke is not in the race for second output. Other ereeks in the neighborhood, Mr. Orr says, will yet prove as rich perhapis as Williams Creek was. Lightning Creek, Swift River, Slough Creek. Willow River and dozens of other creeks which have never been bottomed will yet give up their hoard of grold. Of Omenica, Mr. Orr. who spent two years there, says: "It was barely seratched and the whole of the Cassiar country is yet comparatively virgin ground." The enormous cost of provisions. difficulties of access and cost of labor all combined to make the gold hunter drop work that would not quickly and enomonsly repay. To-lay there is no better gold comatry to prospect than from Cariboo through to Klondyke. From Asheroft throngh it is only a little over a 1000 miles of which the finst 220 miles is by a tinst-class wagon road, the next 460 hy trail and the balance by aplendid water course down Teslin Lake and the Hootalinqua River. But within one year the excitement will be very likely centered in the Cassiar mange of momtains from which watersheds the sources of the Yukon largely spring. For the prospectors who wish to ro in cheap we Bay : Start from Ashcroft in April, lave Quesnelle in May and you can spend the season most profitably in prospecting through'Telegraph Creek. If you wishyou
could then sell your pack animals. for which there is always a demand at tha point, and build a boat, and in a week from the time you leave Lake Teslin yo can reach that now most talked-of spot on earth-Klondyke.".

## The Mackenzie Porcupine Route.

Next to the St. Michael's this is unquestionably the most convenienby route, and also the next longest. A party taking this route would travel $\mathbf{R}$ rail to Edmonton, a distance of 1,032 miles from Winnipeg, thence $b_{\text {con }}$ stage 90 miles to Athabas a Landing. From this place is practically unthr broken navigation, by lakes and rivers, for some 1,800 milcs to Fort Mc Bi Pherson on the Peel River, a few miles above the Mackenzie River delta, an ma the traveller may elect either to procure a boat and take it to Ft. McPherson, 0 take passage on one of the Hudson's Bay Co 's. steamers plying on this riveful route. From Ft. Mcl'herson to La Pierre's House on the Porcupine or rathet pus on the Bell River, a short distance above its junction with the Porcupine is portage of some 70 or 80 miles. But this portage is very easy and accordin: to the president of the Edmonton Board of T'rade, Mr. Isaac Cowie, the Indians will in winter take freight by dog trains over this portage for $\$ 1.50$ per rocth pounds, though in summer they demand 14 cents a pound. From La Pierrei 1 House navigation on the Bell and Porcupine Rivers is unbroken to the Yukon. a distance of 400 miles. The Yukon, of course, is navigable all the way up. the distance from the mouth of the Porcupine to Dawson city being about 37 : miles. On this route 400 miles are within United States territory, two hundrei miles on each of the rivers, the Yukon and the Porcupine.

As the portage between Ft. McPherson and La Pierre's Housc is fearei by some who otherwise believe this route quite feasable, it is worth while $t$ publish the description given of it in 1888 by Mr. Wm. Ogilvie. He camt across the country, practically in a direct line, in the spring, leaving the Yukon on March 17 th and reaching La Pierre's House June 6th, having becu detained some six weeks on the Upper l'orcupine, awaiting the break up of th: ice.

The following are extracts from his published description :
Bell River is named after Mr. J. Bell, of the Hudson's Bay Company, who crossed to it and descended it to the Porcupine in 1882. He also followed the Porcupine below the junction for three days.

The ronte always travelled from this nost to Fort McPherson crosses the mountains in a pretty direct line. There are two rontes, one for winter travel and one for summer. The distance between the two points is called about eighty miles, and it generally takes three days to make the trip.

All the trading outfits for La Pierre's and Rampart Houses have to be brought this way in the winter months on dog sleighs, and the furs and meat received for it have to be taken to Fort McPherson in the same way. From there the furs are sent out by the Mackenzie. This is so costly and slow that in 1872 Mr. James McDougall, (now Chief Factor). then a clerk in the Hudson's Bay service, thought of trying some more convenient and expeditions way. Accordingly he
ays a demand at tha eave Lake 'Teslin y' ".
nade an exploration and survey of a pass through the mountains to the north of ;his route, with a view to building a wagon road through it, and using oxen to imnsport the goods from one waterway to the other. I went through the pass on ny way to Fort McPlierson, and will describe it in its proper place.

Mr. McDougall, also, in July, 1873, when the water was unusually low, made soundings in Bell and Porchpine Rivers to determine the practicability of 3teamboat aivigation, carefully exainining both rivers in places suspected of being shallow. Between La-Pierre's House and Yukon River he found five shoal places, where the depth was less than four feet.

On the morning of the 8th of June I started from LaPierre's House to go to
he most convenien jute would travel innipeg, thence e is practically miles to Fort 1 zie River delta, an Ft. McPherson, plying on this rive orcupine or rather: the Porcupine is easy and accordin Cowie, the Indian for $\$ 1.50$ per 100
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lave to be brought meat received for om there the furs that in 1872 Mr. son's Bay service.

Accordingly he
the Bell River to the pass above mentioned as having teen explored and surveyed
Dy Mr. McDongall. having as a guide the Indian I had brought from Eagle River, who had been throngh the pass once or twice and was supposed to know all about it. I carried on the survey, as on the lower part of the river. by taking compass bearings of prominent points on the river and estimating the distances to nthem. In this way I made the distance io the point at which we leave Bell River to go through the pass to be about twenty-one miles; yet, owing to the many and long simosities of the river and detentions from ice jams, one of which delayed us half a day, it was three days before we arrived there. The current is nowhere strong, but there are some shoal places where the heavy ice, fully five feet thick, grounds and piles up until the accumulated water behind pushes it over.

On the morning of the 12th my guide told me that most likely we would reach the mouth of the creek, which flows from the pass, about dinner time. Judge my surprise, therefore, when a few minutes after starting he pointed to the mouth of a stream almost hidden by willows and alders, and asked if I thought that was the creek in qu:sstion, and when I said "No," he answered me it was. I could not believe him until I went ashore and found the preparations that had been made by Mr. McDougall to build a storehouse in which to deposit the goods brought through the pass.

The canoes were put into the creek, which is only thirty or forty feet wide. For the first two or three hundred sards the water was deep, and smooth enough to paddle along with ease, but then came the end of our pleasure. The creek for about a mile and a half was one continnous rapid, not dangerous, because there was not enough water to hurt anyone; but so shallow that it would hardly float the canoes when all the men were out of them; so we had to wade in ice water, while snow was falling, and drag our canoes, with our outfit in them, over bars and stones in the creek, until at last even that comfort was denied us, for we reached a part of the stream where the ice was still solid, and at least ten feet thick, so that everything had to be packed for nearly a mile, to where the creek was again clear of ice, when we re-embarked and floated up about three miles in a straight line, but certainly twice that distance by stream. Here everything had to be carried about four miles across the watershed of the pass to a ereek which flows into Tront River, a tributary of Pell River. On the summit of the pass are several lakes. which, had they been open, would have reduced our packing to less than half a mile; but the ice was still solid with only a few pools of open water around the elges.

On the morning of the 15 th everything was got across to waters flowing to the Arctic Ocean, but the creek was so full of snow and ice that it did not help us much, and, although it was only three and a half miles to Trout River, the whole day was consumed in getting there.

I may say here that I compared notes of survey with Mr. McDongall, who measured his distance with an error probably not greater than one in a thousand. His survey followed the valley of the pass from bend to bend and cut off many furns in the river, while mine followed the course of the river more closely, and is consequently somewhat longer, the actual difference on the whole distance being about five miles; but when I take off my, plot a length corresponding as nearly as possible with a line of Mr. McDougall's survey, I find the difference
very slight. Many of his piekets were still standing, with a piece of sod on the of them, as fresh looking as though they had been planted but one year, instiver is of sixteen.

From where we enter Tront River this route to the head of slack water about twenty-four miles by the river. In this distance the fall fs one thousa and ninety feet, but to determine what the grade of a road built on this, by por the steeper side of the pass, would be, we have to assume a nearly straight lin hers instead of following the bottom of the river valley. This would reduce the dus 2 tance to about twenty miles, thus giving an average grade of fifty-five feet to eigh mile on this side of the pass. This is not too great for any kind of roadvir na which may be built here.

Ten and a half miles down the river we reach the canyon. Here we are o of the mountains, and the character of the rock along the river changes complet ly, being here sedimentary. The walls of the canyon are of a stratified sandstonlanit the top strata appearing to be harder than those lower down.

At one place, while I was rumning past a clifl in a rapid, I saw what seem, to be a coal seam in the face of the cliff. It was three feet or more thick and, tended the whole length of the eliff-about a quarter of a mile. I told Mr. y Dougall of this, and he informed me that he had lfound the same seam, and h taken some of the coal to Fort simpson to be tried in the blacksmith's forge thet and it was pronounced a fair quality of coal. The last rock exposure seen in de cending the river is just at the foot of the swift water. On the north bank the is a low cliff of soft red sandstone, mich weathered, as well as worn by $t$ water of the river, which shows its softness.
The walls of the canyon, in which the river takes a sharp turn. are aho eighty feet high. On the outside of the curve the walls are perpendicular. but oiles the inside they are not so steep nor so high. The eurrent is always swift anollov rough, but there is no danger in navigaiing it in canoes, excepting a liability thon rub the bottom once in a while, The fall is uniform to the canyon, but below ind $f$ there is a succession of rapids with short intervening stretches of easy watcuand The fall between the canyon and the head of easy water is seven hundred anheri thirty feet, which in a distance of fourteen miles, gives C.y-two feet descent tary the mile. This would not be at all dangerous over a uniform slope and a smootioad. bottom, but divide it into two or three rapids, and throw a lot of large rocks intonti them, and it makes rumning through them in a small boat exciting to say thebou least.

From the foot of the rapids to Peel River the current is very slow: and alourae four miles down the river branches, the Southern branch spreading out inter numerous lakes, "in which we were a day paddling around trying to find our way out. In most of them the ice was still floating. Had the Indian taken the nort chanmel we would have saved nearly a whole day in time, but he thought th south channel was the right one until we were lost in it, and then recollected tha we should have taken the other one. These channels join again below the lake and continue on to Peel River.

The surface here is flat and swampy with much good timber. Althougithe this was the most northerly point reached (about 67 degrees 45 min .) the trees oldyk this Hat were as large on the average as those seen anywhere else on the survey. The Indian told me they called this part of the river Poplar River. from the fact that much of the wood grows along its banks near the mouth. That poplar grows on it is no very distinguishing River, so I propose to name it Trout River, froll the abundance of trout that we caught in it up in the mountains.

Yeel River was reached on the 19 th Jume, and on the morning of the 2 th at 11 o'clock, we arrived at Fort McPherson, built on the east bank of the I'cel River.

Before closing the further explanation might be made that though the port. age between Peel River and the Porcupine is generally stated as 70 to 80 mile it can very easily be reduced to some 35 miles. About 12 miles above the junction
a piece of sod on the Peel and McKenzie, Rat' River enters Peel river from the west. This out one year, instiver is navigable for flat-boats some $30-35$ miles and leading directly to the Bell Porcupine Rivers. But leaving this navigable stretch out and nllowing 70 ead of slack wateriles for the portage, it will be seen that out of the $2, \overline{4} 40$ miles by this route from fall fs one thousil lmonton to Dawson City there are only 375 miles to go up strean and some 180 built on this, by portages over some of which easy wagon roads are already made and over the nearly straight limers a road can be made without much expenditure. On this route there are ould reduce the dus 2,200 miles of down stream navigation, making it a comparatively easy fifty-five feet to teight route. Like the St. Michael's route the Mackenzie cannot be depended on 1y kind of roadwir navigation before July 1st nor after Sept. 30, because of the high latitude of ort McPherson and the Porcupine.
n. Here we are 0 ar changes complet stratified sandston[

Rev. Father Husson, who spent 23 years in these regions, gives in "Le I saw what seeme 'To reach the famous Klondyke geld mines, Yukon, from Winnipeg, you go more thick and (Edmonton by the C. P. Railway line. From Edmonton to A thabasca Landing. hile. I told Mr same seam, and ha smith's forge then xposure seen in dej le north bank the ell as worn by inety-six miles, you cross by wagon. At Athabasca Landing you take to the thabasca River, which you descent without difficulty to the grand rapid, a disunce of about two hundred miles. You have to take the portage at the grand apid, about two miles, which is the easiest thing in the world, thanks to the Iudson's Bay tramway. Then comes a succession of rapids, which you can hoot for a distance of ninety miles, and you arrive at Fort McMurray. This is the nly road used by the Hudson's Bay Company and the Catholic missions for the ransportation of their goods. From Fort McMurray you proceed, continuing to arp tum, are ahoscend the Athabasca River down to the lake of that name., about two hundred erpendicular, but oiles. You cross the end of Lake A thabasca, about 12 miles, and continue to is always swift andlow the course of Athabasca River, which then takes the name of Slave River. epting a liability thbout thirty miles down the waters of the Peace River join those of Slave River, anyon, but below ind form a beautiful stream, which you descend without any difficulty to Smith ches of easy wateuanding, some 120 miles from Athabasca Lake. At Smith Landing the course of seven hundred inhe river is obstructed by a succession of rapids, which make the portage necestwo feet descent tiary all the way. This portage is sixteen miles long; there is a good wagon slope and a smoutoad. Afterwards you take the Slave river again at the foot of the rapids and of large rocks intontinue your journey without hindrance to Great Slave Lake, a distance of exciting to say thbout a hundred and fifty miles. You arrive at Fort Resolution. Yon cross the Blave Lake in a northwesterly direction and you arrive at the entrance into the Kackenzie River. A little lower down is situated the fine Catholic mission of ry slow; and aben hackiznce. The whole course of the Mackenzie River is navigable to its mouth; preading out inte ng to find our wa an taken the nort ihe Mackenzie River you pass in succession, Fort Simpson, at the mouth of the but he thought thiard River, Fort Wrigley, Fort Norman, Fort Good Hope, and you arrive at the ien recollected thamouth of the Peel River. Yon then leave the Mackenzie River to ascend the Peel in below the laki River to the fort of that name, also called Fort Macpherson. From there there is a portage used by the Hudson's Bay Company for their transactions from fort to fort. as far as one of the branches of the Yukon. l'y descending this branch of timber. Althougthe Yukon, otherwise called the Porcupine River, you arrive at the fumous Klonmin.) the trees oldyke gold inines. By this route you do not leave Canadian soil.
iver. from the sury. That poplar grow. Trout River, frors
rning of the 2 ith bank of the Peel
$t$ though the pert. s 70 to 80 miles it bove the junction

From these explanations it is seen that from Athabasca Landing to the gold mines the whole journey is performed by water, with the exception of two portages ; the first, the Fort Smith rapids, presents no great difficulty, thanks to the wagon road ; the second, that is to say, the one from Fort Macpherson to Porcupine River, is very feasible in winter, especially by means of dog trains.

Certainly then this route is much shorter and much less expensive than an the other routes indicated. The distance from Edmonton to Fort Macpherson is only a little over eighteen hundred miles, while it is two thousand
five hundred miles from Seattle to the mouth of the Yukon, and eighteen dred miles additional to Klondyke, which makes four thousand three hun miles.

## The Liard Route.

It is not our intention to advocate any special route as the best, but next to impossible not to recognize in this liard-Pelly the route to the fields for cattle and pack horses, while with comparatively little expenditur might be made a pleasant and convenient one for travellers. Of the en: distance between Winnipeg and Dawsnn City, by this route, some $2,400 \mathrm{mi}$ 1,032 would be travelled by rail and about 400 , at least, by boat, on the $P_{1}$ and Yukon, while 120 miles east of the mountains, down steream on the I son to its junction with the Liard, might also with ease be traversed by bo:

The following extracts are from a description of this route published in Edmonton Bulletin, edited by Frank Oliver, member of the Dominion Ho of Commons, a gentleman who may be accepted as an authority :

The total distance is 1,490 miles, as against 1,600 by the Chilkoot Pass a 4,400 by Behring Sea and the Yukon River. Four hundred miles of this dista would be good and uninterrupted steamboat navigation on the Pelly and Yuk rivers; the whole distance except the last 200 miles would be through a gra growing region of good summer and moderate winter climate. The season travel on it would be much longer than on any other route, as there are no hi elevations to be crossed and the greater part feels the influence of the Chin winds. It has been travelled throughout its whole length by scientific men the highest repute in the employ of the Canadian Governmeut, and their ma and reports are available to everyone for information regarding it. At sever important points it touches the navigable water system of the Mackenzie and other points passes within reaching distance of the Omenica and Cassiar digging besides crossing the gold-bearing Peace, following up the gold-bearing Liard at down the gold-bearing and very little prospected Pelly. Wagon roads, pa trails and boat routes form the through connection at present. It is because the inconvenience of these changes in the mode of conveyance that it has not. been used. It is desired in this article to place before the public as shortly at as plainly as possible the facts as to its probable practicability as an all lat route, and the certainty that at a moderate expenditure it could be made anes cellent cattle, pack trail and sleigh road throughout the entire length and a wag on road for a great part if not all of the distance.

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2 as the best, but the route to the ly little expenditur ellers. Of the en: ite, some $2,400 \mathrm{mi}$ by boat, on the $P$ 1 steream on the je traversed by bo route published in the Dominion Ho thority :
the Chilkoot Pass a miles of this distat the Pelly and Yul be through a gra mate. The season , as there are no hi rence of the Chino by scientific men leut, and their ma rding it. At sever the Mackenzie and ind Cassiar diggin? ld-bearing Liard a Wagon roads, $\mu a$ nt. It is because ce that it has not. oublic as shortly ai ility as an all lat could be made aner re length and a wag


## Table of Distances.

The route to be followed and the distances from point to point are:

|  | Miles |
| :---: | :---: |
| Edmonton to Peace River crossing | 260 |
| Crossing to Forks of Nelson | 240 |
| Forks to Junction of Nelson and Liarrl | 120 |
| Nelson to Dease, up Liard. | 160 |
| Dease to Pelly | 170 |
| Pelly to junction with Lewes. | 220 |
| Junction to Klondyke. | 200 |
| Total. | 1,370 |

## EDMONTON TO PEACE RIVER.

From Edmonton to Peace River and on to the forks of the Nelson a mber of roates may be taken, and the distance given above may be some at shortened. However, not to confuse, the best known will be taken, and ace River crossing will he considered an objective point. The Peace has he crossed in any case. 'This part of the country has been travelled and tpped by Prof. Dawson, director of the Dominion geological survey, and his ports and maps are procurable from the geological department, Ottawa. te route at present generaliy taken by the Peace River traders, who outfit at lmonton, is by wagon road to Athabasca landing, yo miles. At the [.anding eir freight is transferred to boats which are taken up the Athabasca, [esser ave River and Lesser Slave Lake. Their horses are driven on the south le of the Athabasca to the mouth of Lesser Stave River, 40 miles. Then ey are swum across the Athabasca, and taken alone the north side of Lesser ave River, 40 miles, and along the north side of Lesser S!ave Lake, 85 miles. : the Hudson's Bay Fort at the west end of Lesser Slave Lake the traders unsfer their goods to carts, which are taken by road, 60 miles, to the crossing Peace River at the junction of the Smoky. If horses are to he packed rough this route can be shortened by taking the wagon road through $\mathrm{St}_{\mathrm{t}}$. bert to the site of Fort Assiniboine, on the Athabasca, 85 miles, then northest to the head of Lesser Slave Lake, ir5 miles, and by cart road to Peace iver crossing. 'This route has not been travelled for some years and possibly :tter time would be made at present by taking the Landing trail.

There is a settlement near the crossing of Peace River, and a boat could : had there to cross in, while horses would have to swim. Information and lides for a further stretch of the journey could be secured there.

## PEACE RIVER TO NELSON RIVER.

From Peace River crossing the country is mixed prairie and timber, westard along the north side of the Peace to Pine River, 100 miles west of the ossing. There is a good trail the whole of this distance. On reaching Pine iver the direct course would be to turn northwestward along its east bank, tween its waters and those of the east branch of the Nelson. This would ake the distance from the point at which leace River was reached to the rks of the Nelson 140 miles, or from Peace River crossing 2.40 miles. Inforation could be had at Peace River crossing, Dunvegan, or Ft. St. John as to e practicability of this direct route, of which there is very little doubt.

If, however, this route was found to be unadvisable to be followed, trail still good could be followed across line River to Ft. St. John and ov Halfway River, 40 miles. The Indians have a good horse trail up Hal River to boat navigation on the west branch of the Nelson, about four or days' travel with pack horses, which would not be more than 100 miles. may, therefore. be taken as established beyond all question that an open trail exists from Edmonton to boat navigation on the west branch of Nelson, ly way of St. John and Halfway River, the total distance being it miles.

If it were found necessary to go to Ft. St. John in order to reach Nelson River, it would be considerably shorter to take a direct pack trail w goes by way of Lake S. Ann, Sturgeon Lake, Smoky River and Grand Pre crossing the Peace at Ft. St. John, instead of at the mouth of the Smok before suggested. The route was followed by Henry McLeod, C. E., ir employed by the Canadian government to explore the South Pine River for the C. P. R. in coming from the pass to Edmonton, and is shown on geological survey maps accompanying Prof. Dawron's report.

In this connection it may be mentioned that any part of the Peace ${ }^{10}$ region is suitable for horses to winter out. Considerable gold has been wal from the bars near lit St. John. At the forks of the leace, easily acce. from Ft. St. John and about 100 miles further north, a very rich laa worked a number of years ago by W. Cust and E. F. Carey. Between 50 75 miles west of this point on the Ominica branch of the lindlay, which north fork of the Peace, good diggings are now heing worked.

## NELSON RIVER.

That there is a good boat navigation down the west branch of the N adnits of no doubt. Oyilvie started up the Nelson about September 1 ot although he suffered many unnecessary delays he left the upper part of the branch within 100 miles of lit. St. John on Octoher 7 th, the land dist.m being albout 120 miles and no portages having been mode. As this wate season of low water, this proves the suitability of the river for down st 8 navigation. In fact the lindians use the Nelson and the Halfway riveril canoe route, there being a portage of 25 miles between them and a $<$ an point. A party of miners took this route on the l'eace River to the il about 1873. 'They went up Halfway River in the fall, cross' : the port $F$ the winter and went down the Nelson in the spring.

As to the suitabiitity of the country from the l'eace to the west bran the Neison for packing through, Mr. Ogilvie in his report, and Mr, ic Benton of Edmonton, who accompanied him, speaks of the timber as $P$. scrubby and the land generally firm, as it naturally must be being "ell arb and on the rise of the foothills of the Rockies.

On reaching either east or west branches of the Nelson with pack hors: packs could be lightened on to boats or rafts, and the journey to the mona the Nelson made very easy on the horses by this means. Certainly this be done with advantage from the Forks down, about 120 miles by land prolably from 40 to 50 miles above the Forks on either branch. Ogilvic confined to the river in his travels, gives no idea as to the possibility of
ple to be followed Ft. St. John and 0 horse trail up Hal son, about four or fe than ico miles. fion that an open ie west branch of tal distance being
in order to reach direct pack trail $"$ iver and Grand Pr: nouth of the Smok McLeod, C. E.. South line River h, and is shown on eport.
part of the Peace 1 le gold has been was Peace, easily acces th, a very rich bat arey. Between 50 the Findlay, which worked.
st branch of the N ront September 1 oth he upper part of the 7 th, the land dist monton by direct route, -the route would turn nearly due west along the mide. As this wier stream intil the Rocky Mountains were passed. R. (i. MeConnell, of e river for down st geological survey, explored the Liard hetween the mouth of the Nelson the Halfway rivert the mouth of the Dease, 160 miles, in the summer of ' 87 , coming down cen them and a czam in a boat. His reports and maps are published by the Dominion eace River to the logical survey. The Liard was used as a boat route from the Mackenaie, II, crossr : the port ce to the west bran Going carefully over the information obtainable as to this part of the route, s report, and Mr. ich includes the crossing of the Rocky Momiains, the only possible obstacle ust of the timber as pack and cattle travel at present would be the timber, which might reguire rbe cut through in places. On the other hand unless the conditions are $y$ different from what they are elsewhere in the Northwest the timber would so form any very scrious oljjection. Feed for animals most certainly exists along, which is the main consideration, and the climate certainly camot be ere.

## CASSIAR.

Dease River enters the liard from the south 160 miles above the mouth of Nelson. From the Liard to Thibert and McDame Creeks, which are the
principal mines in the Cassiar district of British Columbic, is less than 100 miles, and practicable either by pack trail or canoe.

## FRANCIS LAKE AND PORTAGE.

From the mouth of the Dease to Pelly River was explored by Prof. Dawson, director of the geological survey of Canada in 1887 . The distance to the beginning of the portage from Francis lake to the Pelly is about $\mathbf{1 2 0}$ miles. This was made by canoe and the navigation is not quite as difficult as in the part of the Liard from Dease River down. The distance from Francis Lake to Pelly River is about 50 miles. The greater part of this can be made in canoes up Finlayson Creck to the lake of the same name and down Campleell Creek. The divide crossed in this distance is somewhat mountainous, but "no very high summits were seen, the elevations being as a rule rounded and regular in outline, and forming broad, plateaulike areas." The climate becomes less moist as Francis Lake is left, and dry, gravelly terraced flats are not uncommon.
"Grassy swamps are found in a number of places, and a good growth of grass is also met with where areas have been denuded of forrests by successive fires, so that should it ever become desirable to use horses on this portage they might be maintained without difficulty."
P. C. Pamlirun, of Battieford, was Hudson's Bay officer in charge of Francis Lake and l'elly Banks posts a number of years ago. He says the chief difficulty in the way of a pack trail would be the heavy timber along the Nelson and lower part of the Liad. The country is rugged but the ground is solid, with very few muskegs. 'There is plenty of grass along the route, but 1 ing different from that of the prairie, horses used to the prairie grass will gt do as well on it. Horses native to that country would winter out on the iard, but horses taken through from: the plains would have to be fed hay. Horses taken from the plains could winter well on the l'eace River prairies. Plenty of hay can be cut at the site of lort Halketc and at lrancis Lake. Domestic cattle were kept at the former post by the Hudsan's Bay Company. The snow is never very decp at lort Halkett as the chinook reaches there in the winter time. At Francis Lake winter lasts from November isth to May rst. Wild fowl come about May 1 gth. It is no colder in winter at Halkett or Francis Lake than at Edmonton, liut arross the divide on the Pelly it is much colder.

Prof. Dawson mentions that in the vicinity of Francis Lake wild roses in bloom were abundant in June. The forest growth resembles that of interior British Columbia. Although the weather was showery when he was there he considered that neither the snow nor rainfall was very great. The elevation of Francis Lake abov' ie sea is 2,577 feet. 'The height of the watershed between the waters. 'we liard and l'elly is 3,150 feet.

## PELLY RIVER.

l'rof. Dawson reached Pelly River on July 29th, 1897. The elevation abnve the sea at this point was found to be 2.965 feet. The river is 327 feet wide with a middle depth at that date of 7 feet. The profensor believes it to navigable for steamboats at that point and for a considerable distance
furthe for stc was at rapid other rapid there
further up the lakes in which it heads. In going down he found it suitable for steamboat navigation and uninterrupted except by two rapids. The first was at the mouth of the Hoole River, about 20 miles below the portage. 'This rapid might be run safely, but can be avoided by a short easy portage. Another rapid occurs about ten miles further down in Hoole canyon. This rapid must be avoided by a portage half a mile in length. From this point there is uninterrupted steamboat navigation to the sea.
'The land-distance, by the Pelly, from the Francis Lake portage to the junction with the Lewis is about 200 miles, and the water distance 320 miles. The country is not rugged, the timber is not large and many open grassy slopes are ment:oned along the banks. The climate is evidently more moderate than in the Klondyke region, and apparently there is no reason why pack horses or loose cattle should not be driven through this region without diffi culty. Cattle and horses have already been driven to the mines from the Chilkat pass down the Lewis, where the country is much more rugged than on the Pelly. In any case with a large navigable stream flowing direct to the mines, once men were at the Pelly River the difficu'ties of reaching the Klondyke diggings, with either cattle or freight, would be over, provided the time of the year were suitable. If the season were too late for navir on, Francis Lake is evidently a better wintering place than anywhere on the Yukon waters, and the surrounding country offers as good a field for the prospector as any other part of the gold region.

Spruce up to two feet through is found at intervals all along the Pelly, but is not as abundant on the upper as on the lower part of the river.

From the junction of the. Pelly with the Lewis about 200 miles from Francis Lake portage, to the Klondyke digging, the Pelly River and Chilkoot pass routes, whether by land or water, would be the same and the distance would be about 200 miles, the mouth of the gold-bearing stewart River being passer' on the way.

It will not be out of place to finish this interesting description by a quotation from statements made by the late Roderick Campluell for many years an officer of the Hudson's Bay Co., who several times traversed all the northern mountain districts :

In this connection it may be said that there are already pack trails for a sood part of the distance along this route, which have been used for years by the Hudson's Bay Company, miners, tiaders and hunters, the ascent of the mountain ranges is comparatively easy, and there is a good deal of open country between the sum:mit and l'elly. As has alrady been intimated the whole journey from Athabasea Panding to the Pelly, a distance of about 900 miles, might be made with pack horses, and a wagon road might be made at a reasonable expenditure. On reaching the l'elly the sold-seeker by this route would be less than 200 miles above the present gold fields, with a gently flowing eurrent interrupted by on y one rapid to bear his craft to the Mecea. . Ill the river beds southeast of the Yukon are auriferous, and much gold will le found south and east of where the present finds are beis.g made. I'robably mimy of those who go this way will not go to the Yukon as they will make strikes along this route on the numerous gold-bearing streams. The interior of the Athabasca and Yukon districts have scarcely yet been prospected, and

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it is safe to say that there will soon be greater discoveries than those of Klondyke and neighboring diggings. When the writer was making a tour along the north coast of British Columbia in 1891 he saw much gold dust and nuggets at the trading posts at the mouth of the Skeena River and at Port Simpson, near the mouth of the Nass River. The nuggets were brought to Port Simpson by Indians from the interior and were washed from surface sands in small streams. The dust brought down the Skeena River was also washed out by the Indians, who do not penetrate the interior very far. The Indians guard the whereabouts of the deposits religiously, but they will withou doubt be brought to light sooner or later by the sturdy and intrepid prospector.

## WHAT TO TAKE.

It is impossible to say exactly what to include in the supplies a miner bound for the Klondyke should take with him, as the taste of no two men are alike. 'The appended list may, however, be taken as mainly correct, as to the needs of one man for one year (and once more it is well to state, and to emphasize the point, that no one should take a whit less than one years supply of provisions, at least until an all-year route for pas sengers and freight is opened to the mining camp). 'The list is gathered from the estimates of various outfitters on the Pacific Coast, who have had years of experience in supplying mining camps in varions parts of the mountains:

II. IRDW ARE.


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It imposs nected and ho Klond as far near th of the evideno on the and Tr : this rou nipeg to peg for compan passeng at vario oflers to (ity, at Kl with less steamsh \'ictoria in the Y Taking t over to accordin getting t to $\$ 300$. incidenta

Besides the enumerated articles it is well to have one Pocket Rule, at least, one Trout Line, and at least one pair of good Snow-glasses, for the prevention of snow blindness. A well assorted Medicinc Chest is also a necessity. Any reliable druggist will be able to give the necessary aid in selecting drugs and in packing them safely for the journey. There are two things in the line of drugs that no one should forget to be well supplied with, and that is: Arnica and Carbolic or other reliable healing salves.

## COST OF THE TRIP.

It is plain that in giving the cost of a trip to the Klondyke it is absolutely impossible to give the exact figures. There are many charges intimately connected with transportation, hotel charges, etc., that no man can begin to count and hoping to make a correct guess. Supposing, however, that the prospective Klondyke miner is bent on business alone and anxious to make the dollar go as far as possible, without being niggardly, it is possible to come somewhere near the mark.

It must be borne in mind, however, that prices of even staples may vary. should the supply of a given article run short at a given place, up goes the price. Even the transportation charges proper, railway and steamship fare, are liable to change at any time. Keeping this in mind it should be needless to state that any and all figures given here and based on prevailing prices at the time of writing, are given merely as approximate, and not as showing the actual cost. For many changes may be wrought in a single month, and much more then in six months or a year.

It is stated elsewhere in this little volume that the steamship fare by way of the St. Michael's route from Victoria to Dawson City is $\$ 150.00$. As an evidence that transportation charges are liable to change, it may now be stated, on the authority of one of the officers of the North American Transportation and Trading Co., that the fare has been raised to $\$ 200.00$. A person taking this route and for the sake of economy buying a second class ticket irom Winnipeg to the Coast, can by no means expect to get to Wawson City from Winnipeg for less than $\$ 250.00$, and this will include bagyage of 150 lls . The company, and the same thing applies to the one other corporation taking passengers by this route, being a commercial concern and carrying on stores at various points in the north will not take freight for any mon, but instead oflers to furnish them with anything needed out of its warehouses at Dawson ('ity, at the then ruling price in the camp.

Klondyke travellers choosing the Dyea route camot expect to get along with less than $\$ 70.00$ to $\$ 75.00$ between Wimiperg and Dyea, for railway and steamship fare, meals and lodging, etc., and freight charges on supplies from Victoria to Dyea. As previously stated, and according to all having wintered in the Yukon, no one should take with him less than $1,000 \mathrm{lbs}$ of sipplies. I'aking that as the average and allowing ioo lts. as the load of each traveller over to Lake Linderman, he has still not less than goo lbs. to freight over, and according to the present price for packing, he would have to pay $\$ 225.00$ for getting the 900 lbs . over to I.ake Linderman. This brings the cost so far up to $\$ 300.00$. At Iinderman a boat may be bought for $\$ 75.00$ or $\$ 100.00$ and incidental expenses at Juneau and lyyea, added to the price of the boat, will
easily bring the total cost up to $\$ 400.00$. In this connection it may be stated as the universal advice of those having been there, that no one should leave Winnipeg for Dawson City over the Dyea route, with less than $\$ 500.00$ in his pocket. 'This sum then may be considered as the actual cost of the trip, by the time the "diggins" are reached ; certainly not less than $\$ 400.00$. And while on this sulject it might not be out of place to remark, that according to the latest obtainable information, the freight charges from Dawson City to the "diggins" are now up to 25 cents a pound. We do not state this as an undisputable fact, but considering the charges for packing goods over Chilkoot pass, it does not seem as unreasonable as at first view it appears. Considering that at the present time every claim is taken up within at least 150 miles of Dawson City, and the further fact, that this is a practically trackless mountain district, in many places almost impassable, 25 cents a pound becomes in reality not such an exorbitant charge.

By Way or Edmonton.-Choosing the Lionel-Pelly route the railway fare and incidental expenses from Winnipeg to Edmonton would be about $\$ 45.00$. Once in Edmonton the first thing to do would be to procure packhorses, packsaddles, etc. The price of packhorses at the present time runs from $\$ 25.00$
 fait,y good trail. Allowing 225 lbs. as the average load for a horse, 5 of them would pack 1125 lbs . of supplies. Taking two extra horses, seven horses in all would be purchased at an average price of say $\$ 35.00$ each, or in all $\$ 245.00$. Packsaddles, ropes, ete., at present prices in Edmonton, would cost $\$ 8.00$ for each horse, or a total of $\$ 56.00$ for seven horses. Parties taking this route in the immediate future, before a road has been clearly marked out across the undulating prairie section, would in all probability require an Indian guide to take them as far as the l'elly Banks. A good guide can be hired at $\$ \mathrm{r} .50$ per day and willing to take at least a portion of the pay in trade. One guide will serve twenty men as well as one, but supposing the average party to be composed of twelve men and supposing further that they travel only 16 miles a day on the average, a low enough estimate between Edmonton and Pelly Banks, they would cover the distance ( 950 miles) in 60 days. 'The pay of the guide then would be $\$ 90.00$, or $\$ 7.50$ to each member of the party. Thas 1 rings the cost up to $\$ 353.50$ or say $\$ 360.00$, for the entire trip from Winnipe ir to the gold bearing valleys of the Yukon. In this connection it should be obserred that the seven horses brought from Edmonton would find a ready sale in !)"wson City or surrounding camps at $\$ 200.00$ each, or more, horses in that district being worth from $\$ 250.00$ to $\$ 300.00$ at the present time and no sign that the supply will equal the demand in the near future.

By way of the Mackenzic-Porcupine route the cost of the trip on the same basis would be, roughly speaking, about $\$ 160.00$. As no correct figure is obtainable this is mere guesswork and is arrived at in this way. The charge for freighting goods from Edmonton to Athabasca Landing is $\$ 1.50$ per 100 lbs . The fare for each member between these points should rot exceed $\$ 5.00$. At the landing a boat will have to be bought or built and they range in price from $\$ 100.00$ to $\$ 300.00$, according to size and whether a sailboat or merely a rowboat. A guide to Fort McMurry will cost at least $\$ 2500$ and portaging toat and goods over Smith portage will run from $\$ 10.00$ to $\$ 15.00$, while $\$ 15.00$ to
$\$ 25.00$ will be required for transporting the outfit from l'eel River to La l'ierre's house. These several amounts added to the initial cost, from Winnipeg to Edmonton, bring the total up to at least $\$ 160.00$. What it would cost to tow the boat or transport the men and goods from Ft. Yukon 375 or 400 miles to Dawson (ity, it is, of course, impossible to even guess at, at the present time.

## WHERE TO OUTFIT.

As previously pointed out those taking any of the Pacific Coast routes should procure every article reguired in the towns or cities on the Canadian side of the boundary line, provided, of course, as at present, the point of destination is within the lominion. Vancouver and Victoria are the principal trade centres in British Columbia and goods there will be found in equally great varicty and equally cheap as in towns and cities on Puget Sound. The difference there is this, that goods bought in Canada and shipped to Canadian points go through without delay and without payment of duty, whereas the man allowing himself to be cajoled into purchasing his outfit in P'uget Sound cities will have to pay heavy duty on goods costing as much originally as the same class in Vancouver or Victoria.

It may seem farfetched to bring articles of commerce from Wimipeg to the Coast and then reship north, but it is unquestionably a profitable investment to purchase in Winnipeg many of the smaller articles that weigh but little, but make up a goodly item of expense. The same thing applies to clothing, etc. Woolen goods of all kinds can be bought considerably lower in Winnipeg than anywhere on the Coast. 'This is an undoubted fact and prospective Yukon miners should look into it.

Yukon travellers taking the Liard route or proceeding liy any other known road to the Northern Mecca from the east side of the mountains, should certainly procure as much of their supplies as possible in Winnipeg. Every article of clothing, etc., will be found a great deal cheaper in Winnipeg than in Edmonton, and the same may be said of all the numberless small articles required. Not only would this be the means of saving considerable money, but might also be the means whereby all delay would be avoided. Edmonton merchants can not be expected to carry as heavy stocks as those in Winnipeg, the wholesale centre for the entire western country. A sudden rush, therefore, m'ght easily exhaust the supply of certain goods in Edmonton, thus causing unavoidable and annoying delay, while no rush would be too great for Winnipeg merchants to cope with. Horses, flour, etc., and all goods of heavy weight, and kinds that every storekeeper at all times has on hand in greater or less quantity, had probably better be bought in Edmonton. Still it would be advisable to get quotations from Winnipeg merchants before deciding. As regards equipment for horses, pack saddles, etc., the price is somewhat lower in Winnipeg, and the supply in Edmonton would soon be exbausted if a sudden demand arose. It might therefore be advisable to procure pack saddles, etc., in the Wimnipeg saddlery houses.

## Comparative Distances.

## St. Michael's Route.

Miles.
Winnipeg to Victoria ..... 1,600
Victoria to Dutch Harbor ..... 2,000
Dutch Harbor to St. Michael ..... 750
St. Michael to Yukon Mouth ..... 80
Yukon Mouth to Dawson City ..... 1,780
6,210
Dyea Route.
Winnipeg to Victoria ..... 1,600
Victoria to Dyea ..... 1,000
Dyea tc Lake Linderman ..... 30
Lake Linderman to Dawson City ..... 545
3,175
White Pass Route.
From Winnipeg to Wawson City, about ..... 3,250
Stikeen River Route.
Winnipeg to Victoria ..... 1,600
Victoria to Wrangell ..... 750
Wrangell to Telegraph Creek ..... 150
Telegraph Creek to Teslin Lake ..... 150
Teslin Lake and River ..... 325
Teslin River to Dawson City ..... 330
3,305
Riard-Pells Routi:
Wimsipeg to Edmonton ..... 1,032
Edmonton to Peace River Crossing ..... 260
Peace Crossing to Forks of Nelson ..... 240
Forks of Nelson to Liard Junction ..... 120
Liard Junction to Dease River ..... 160
Dease River to Pelly Banks ..... 170
Pelly Banks to Lewis River ..... 220
Yukon to Dawson City ..... 200
2,402
Mackenzte-Porchine Route.
Winniper to Edmonton ..... 1,032
Edmonton to Athabasca Landing. ..... 90
Landing to Grand Rapids ..... 167
Rapids to Ft. MeMurray ..... 87
Smith Portage (tramway) ..... 16
Ft. Smith to Peel River ..... 1,28
Peel River to La Pierre's House ..... 70
La Pierre's House to Yukon River ..... 400
Yukon to Dawson City: ..... 400

## The Yukon Basin.

## HISTORICAL SKETCH OF THE YUKON DISTRICT.

As a great many people seem to be under the impression that the famous Klondyke is a district entirely distinct and separate from the Yukon district, it is but just to state that the Klondyke is but a small portion of the Yukon district itself-size compared, a mere sperk-and situated somewhere near the centre of the Yukon district, measuring from north to south only about one hundred miles from its western boundaiy, taking its name (klondyke or Klondak) from a small river named Thron-Diuch, flowing from the southeast and joining the Yukon a short distance above Dawson City, the present commercial metropolis of Yukon placer fields. Hawson City, it might further he said, is situated at about ${ }^{1} 39$ W Long. and $63 \cdot 30 \mathrm{~N}$ Lat., or about 2,000 miles in a direct line northwest of Winnipeg.

The following historical sketch of this far northwestern district is gathered from reports to the Dominirn Government by that distinguished explorer and surveyor Willian Ogilvie, D.i..S., who has spent several seasons, since 1886. in exploring, surveying and making lunar observations in that immense territory bounded on the east by the Mckenzie, on the north by the Porcupine and Rat Rivers, on the west by the International bomdary, no small portion of which he himseli has determined, and 0.1 the south by the Coast Range of mountains.
"The Yukon district comprises, speaking generally, that part of the Northwest 'lerritories lying west of the watershed of the Mckenzie River: most of it is drained by the Yukon River and its tributaries. It covers a distance of about 650 miles along the river from the Coast Range of mountains.
"The first people from civilization to enter the commtry were the traters for the Hudson's Bay Company. In the $\because$ :ar 1840 Mr. Roderick Campleell was commissioned by Sir George Simpon to explore the Upper liard and to cross the height of land in search of any river flowing to the westward. After ascending the river to its head waters he struck across to the head of the Pelly Wiver, thence down the Pelly to the confluence of the Lewis, at which point he turned back, his men having been discouraged by the stories of the Wood Indians encamped there, who represented that the lower portion of the river was inhabited by a large tribe of camibals. Thus it was mot motil 850 that he could establish what he says he all along believed, that the l'elly and the Yukon wer + identical. This he did by ascending the river to where the Por-
cupine joins it, and where, in 1847 , Fort Yukon was established by Mr. A. H. Murray for the Hudson's Bay Company.
"In 848 Camphell established Fort Selkirk at the conflucince of the l'elly and Lews Rivers; it was plundered and destroyed in 1852 by the Coast Indians, and only the ruins now exist of what was at one time the most important post of the Hudson's Bay Company to the west of the Rocky Mountain's in the far north. In 1869 the Hudson's Bay Company's officer was expelled from Fort Yukon by the United States Goverument, they having ascertained by astronomical observations that the post was not located in British territory. The officer thereupon ascended the lorsupine to a point which was supposed to be within liritish jurisdiction, where he established Rampart House ; but in 1890 Mr. J. H. Turner of the United States Coast Sursey found it to be 20 miles within the lines of the United States. Consequently, in 1891, tiae post was moved 20 miles farther up the river to be within British territory.
"The next people to enter the country for trading purposes were Messrs. Harper and Mc(enestion. They have been trading in the country since 1873 and have occupied numerous posts all along the river, the greater number of which have been abandoned. Mr. Harper is now located as a trader at lort Selkirk, and Mr. Mc(Question is in the employ of the Alaska Commercial Company at Circle City, which is the distributing point for the vast regions surrounding Birch Creek, Alaska. In 1882, a number of miners entered the Yukon countryby the Taiya l'ass; it is still the only route used to any extent by the miners, and is shorter than the other passes though not the lowest. In 1883, Lieutenant Schwatka crossed this same pers and descended the Iewis and Vukon Rivers to the ocean.
"'The history of the Yukon Districc within recent years will be best described by the following extract from the annual report of the Deputy of the Minister of the Interior for the year 1895:
"In the year 1887 the Hon. Thos. White, then Minister of the Interior, authorized the organization of an expedition having for its object the exploration of that region of the Northwest Territories oí Canada which is drained by the Yukon River. The work was entrusted to Dr. Geo. M. Dawson, now the Director of the (ieological Survey, and Mr. Wm. Ogilvie, the well known explorer and surveyor. Dr. Dawson devoted the whole of that season, and Mr. Opave a period covering nearly two years, to oltaining geological, topographical, and general information, chiefly respecting the tract of country lying adjacent to the i4ist meridian of longtitude, which by the Treaty of St. Petershurg is designated as the boundary line from the neighborhood of Mount St. Elias to the Arctic Ocean between Alaska and the adjoining possessions of the British Crown, which now form part of the Northwest Territories of Canada.
"The explorers found that in proximity to the boundary line there existed extensive and valuable placer gold mines, in which even then as many as three bundred miners were at work. Mr. Ogilvie determined, by a series of lunar observations, the point at which the Yukon is intersected by the 141 st meridian, and marked the same on the ground. He also determined and marked the point at which the western affluent of the Yukon, known as Forty Mile Creek, is crossed by the same meridian line, that point being situated at a
distance of about twenty-three miles from the mouth of the creek. This survey proved that the place which had been selected as the most convenient owing to the physical conformation of the region, from which to distribute the supplies imported for the various mining camps, and from which to conduct the other business incident to the mining operations-a place situate at the confluence of the Forty Mile Creek and the Yukon, and to which the name Fort Cudahy has been given, is well within Canadian territory. The greater proportion of the mines then being worked Mr. Ogilvie found to be on the Canadian side of the international boundry line, but he reported the existence of some mining fie!ds to the south, the exact position of which with respect to the boundry he did not have opportunity to fix.
"The number of persons engaged in mining in the locality mentioned has steadily increased year by year since the date of Mr. Ogilvie's survey, and it is estimated that at the commencement of the past season not less than one thousand men were so employed. Incident to this minazal development there must follow a corresponding growth in the volume of business of all descriptions, particularly the importation of dutiable goods, and the occupation of trasts the public lands for mining purposes which according to the mining requan are sulject to the payment of certain prescribed dues and charges. The Naska Commercial Company, for many years subsequent to the retirement of the Hudson's Bay Company, had a practical monopoly of the trade of the Yukon, carrying into the combtry and delivering at various points along the river, without regard to the international boundry line or the customs laws and regu'ations of Canda, such articles of commerce as were required for the prosecution of the fur trade and latterly of placer mining, these being the only two existing industries. With the discovery of gold, however, came the organization of a competing company known as the North American 'Transportation and Trading Company, having its headquarters in Chicago and its chief trading and distributing post at Cudahy. This company has been engaged in this trade for over three years, and during the past season dispatched two ocean steamers from: San Francisco to St. Michael, at the mouth of the J'ukon, the merchandise from which was, at the last mentioned point, transhipped into river streams a $:$ :aced to points inland, but chiefly to the company's distriluting cel. $r$, vira Canadia: territory. Importations of considerable value, consisting of the mmediately requisite supplies of the miners, and their tools, also reached 1 Canadim portion of the Yukon l'istrict from Juneau, in the United States, by way of the Taiy: Inl at, the montain passes, and the chain of waterways leading therefrom to Cudaty. Upon none of these importations had any duty been collected, except a sum of $\$_{3,24} 8.80$ paid to Inspector Constantine in 1894 , hy the North American Transportation and Trading Company and others, and it is safe to conclude, especially when it is remembered that the country prodeces none of the articles consumed within it except fresh atat, that a large revenue was being lost to the public exchequer moder the thensening sonditions.
"For the pmense of ascertaining officially and authoritatively the condition of affairs to which the correspondence referred to in the neat preceeding paragraph relates, the Honourable the l'resident of the Privy Council, during the spring of I89,4, despatched Inspector Charles Constantine, of the North.
west Mounted Police Force, accompanied by Sergeant Brown, to Fort Cudahy and mining camps in its vicinity. 'The report made by Mr. Constantine on his return established the substantial accuracy of the representations already referred to. The value of the total output of gold for the season of 1894 he estimated at $\$ 300,000$, a very large sum considering the relatively short period $t$ ) which mining operations are, by the nature of the climate, confined.
"The facts recited clearly establish-first, that the time had arrived when it became the duty of the government of Canada to make more efficient provision for the maintenance of order, the eninrcement of the laws, and the administration of justice in the Yukon country, especially in that section of it in which placer mining for gold is being prosecuted upon such an extensive scale, situated near to the boundary separating the Northwest 'Territories from the possessions of the United States in Alaska: and, second, that while such measures as were necessary to that end were called for in the interests of humanity, and particularly for the security and safety of the lives and property of the Canadian subjects of Her Majesty resident 'hat country who are engaged in legitimate business pursuits, it was evide. it the revenue justly due to the government of Canada, under its customs, weise and land laws, and which would go a long way to pay the expenses of govermment, was being lost for the want of adequate machinery for its collection.
"Accordingly in June last a detachment* of twenty members of the Mounted Police lorce including officers was detailed for service in that portion of the Northwest, Territories. The officer in command, in addition to the magisterial and other duties he is reguired to perform by virtue of his office and under instructions from the Department of Mounted Police, was duly authori/ed to represent where necessary, and until other arrangements ean le made, all the departments of the govermment having interests in that region. Particularty he is authorized to perform the dutics of Dominion lands agent, colletor of customs, and collertor of inland revenue. At the same time instructions were given Mr. William Ogilvie, the surveyor referrec. to as having, with Dr. Dawson, been entrusted with the conduct of the first govermment expedition to the Yukon, to proceed again to that district for the purpose of continuing and extending the work of determining the 1 tist meridian, of baying out buideng lots and mining clams, and generally of periorming such dhties as may be entrusted to him from time to time. Mr. Ogilvie's qualifications as a surveyor, and his previous experience as explorer of this section of the Northwest, peculiarly fit him for the task.
" As it appears quite certain, from the reports made by Mr. Ogilvie on his return to Ottawa in 1889, and from the report of Mr. Constantine, that the operations of the miners are being conducted upon streams which have their sources in the L'nited States 'Territory of Alaska, and flow into Canada on their way to jom the Yukon, and as douln ess some of the placer diggings under development are situated on the United States side of the boundry, it is highly desirable, both for the purpose of settling definitely to which country why land occupied for mining or other purposes actually lelongs, and in order that

[^0]the jurisdiction of the courts and officers of the United States and Canada, for both civil and crimnal purposes may be established, that the determination of the 141 st meridian west of Greenwich from the point of its intersection with the Yukon, as marked by Mr. Ogilvie in $1887-88$, for a considerable distance south of the river, and possibly also for some distance to the north, should be proceeded with at once. Mr. Ogilve's instructions require him to go on with the survey with all convenient speed, but in order that this work may be effective for the accomplishment of the object in view the co-opetation of the Government of the United States is necessary. Correspondence is in progress through the proper authorities with a view to obtaining this co-operation. It may be mentioned that a United States surveyor has also determined the points at which the Yukon River and Forty Mile Creek are intersected by the 14ist meridian."

Since the date of the above report, Mr. I). W'. Davis has been appointed collector of customs for the Yukon district.
"The business of the Department of the Interior having grown to such proportions that Inspector Constantine was no longer able to deal with it and discharge the numerous other duties assigned to him, Mr. Thos. Fawcett, Dominion Topographical Surveyor, has been appointed gold commissioner, surveyor and general agent of Minister of the Interior for the district. Accompanying him and acting under his instructions are two Dominion land surveyors, Jas. Gibbons and E. D. Bolton, with their parties."

In a report sent in by Mr. Ogilvie in January, 1896 , it is stated that the police are making a most favorable imnression and that the general policy of the government in connection with the district is commended.

## RESOURCES OF THE DISTRICT.

The following account and description of the Yukon ba. $n$ is compiled fiom several reports sent in by Mr. Ogilvie and may without hesitation be accepted as absolutely impartial and as correct as any description of a partially surveyed district may be made :

## agricultural capabilities of the yukon basin.

The agricultural capabilities of the country along the river are not great, nor is the land which can be seen from the river of good quality.

When we consider further the unsuitable climatic conditions which prevail in the region it may be suid that as an agricultural district this portion of the country will never be of value.

My meterological records show over eight degrees of frost on the rst of August, over ten on the 3 rd, and four times during the month the minimum temperature was below freezing. On the 13 th the minimum temperature was $16^{\circ}$, and all the minimum readings for the remainder of the month were below freczing.

Along the eas: side of Lake Bennet, opposite the Chilkoot or western arm, there are some thats of dry gravelly soil, which would make a few farms of limited extent. On the west side, around the mouth of Wheaton River, there is an extensive flat of sand and gravel, covered with small pine and spruce of stunted growth. The vegetation is poor and sparse, not at all what one would
lesire to see on a place upon which he was thinking of settling. At the lower end of the lake there is another extensive flat of sandy soil, thinly clad with small poplars and pines. The same remarks apply to this flat as to that at Wheaton Rlver,

Along the westerly shore of Tagish Lake there is a large extent of low, swampy flats, a part of which might be used for the production of such roots cereals as the climate would permit.

Along the east side th: surface appeared higher and terraced, and is probably less suited to the requirements of the agriculturalist. Along the head of the river, for some miles below Marsh Lake, there are flats on both sides, which would, as far as surface conformation goes, serve for farms. The soil is of much better quality than anyheretofore seen, as is proved by the larger and thicker growth of timber and underbrush which it supports. The soil bears less the character of detritus, and more that of alluvium, than that seen above.

As we approach the canyon the banks become higher and the bottom lands narrower, with some escarpments along the river. At the canyon the bank on the west side rises two hundred feet and upwards above the river, and the soil is light and sandy. On the east side the bank is not so high, but the soil is of the same character, and the timber small and poor, being nearly all stunted pine.

Between the canyon and Lake Labarge, as far as seen from the river,there is not much land of vaiue. The banks are generally high, and the soil light and sandy. At the head of the lake there is. an extensive flat, partly covered with timber, much larger and better than any seen above this point. Poplar eight and ten inches in diameter were not uncommon, add some spruce of fifteen and sixteen inches, and many of upwards of a foot in diameter, were also noticed. The soil, however, is light, and the regetation, especially the grass, thin and poor.

Some miles down the lake an extensive valley joins that of the lake on the west side. This ralley contains a small stream. Around this place there is some land that agit be useful, as the grass and vegetation is much better than any seen so far.

On the lower end of the lake, on the west side, there is a considerable plain which might be utilized ; the soil in parts of it is good. I saw one part where the timber had been burned some time ago ; here, both the soil and vegetation were good, and two or three of the plants seen are common in this part of Ontario, but they had not the vigorous appearance which the same plants have here.

Northward from the end of the lake there is a deep, wide valley, which Dr. Dawson has named "Ogilvie Valley." In this the mixed timber, poplar and spruce, is of a size which betokens a fair soil ; the herbage too, is more than usually rich for this region. This valley is extensive, and if ever required as an aid in the sustenance of our people, will figure largely in the district's agricultural assets.

Selow the lake the valley of the river is not as a rule wide, and the lanks are oíten steep and high. There are, hewever, many flats of moderate extent along the river. and at its confluence with other streams. The soil of many of these is fair.

About forty miles above the mouth of the Pelly River there is an extensive flat on both sides of the Lewes. The soil here is poor and sandy, with small open timber. At Pelly River, there is a flat of considerable extent on which the ruins of Fort Selkirk stand. It is covered with a small growth of poplar and a few spruce. The soil is a gravelly loam of about eight inches in depth, the subsoil being gravel, evidently detritus. This flat extends up the river for some miles, but is all covered thickly with timber, except a small piece around the site of the fort.

On the east side of the river there is also a large plateau, but it is two or three hundred feet above the riyer, and the soil appears to be poor, judging from the thinness and smallness of the trees. This plateau seems to extend up the Pelly for some distance and down the Yukon for ten or twelve miles. As seen from the river it reminds one of the slopes and hills around Kamloops in British Columbia, and like them, though not well suited to agriculture, might yield fair pasturage should such ever be required.

A serious objection to it, however, for that purpose, if it is not watered on the surface by ponds, is that the river is difficult of access, as the plateau on the side towards the river is bounded by a perpendicular basalt cliff, which, without artificial arrangement, would completely bar approach to the water. This cliff is more than two hundred feet high at the confluence, and becomes lower as we decend the river until, at the lower end, it is not more than sixty to eighty fect high.

Between Pelly and White Rivers there are no flats of any extent. At White River there is a flat of several thousand acres, but it is all timbered, and the surface of the soil is covered with a thick growth of moss, which prevents the frost ever leaving the ground. This has so preserved fallen timber and the foliage of the trees that much of it is lying on the surface nearly as sound as when it fell. On this account the vegetable mould on the gravel is thin and poor. The standing timber also bears witness to the coldness of the soil by its slow and generally small growth. A few trees near the bank, where the sun can heat the soil, are of fair size, but further back they are generally small.

At Stewart River there is another large flat to which the same general remarks are applicable. Thence to the site at Fort Reliance, there are no flats of any importance. High above the river in some places there are extensive wooded slopes, which, when cleared, would be well suited for such agricultural purposes as the climate would permit.

At Fort Reliance there is a flat of probably 1,500 acres in extent; but although Messrs. Harper \& McQuestion lived there for some years, it appers they never made any agricultural experiments, believing that they would be futile.

At the Forty Mile River there is a flat of about four of five hundred acres in area, on which the soil is of better quality than on many of the other places mentioned. On this Messrs. Harper \& McQuestion crected their dwelling and store-houses. They gave it as their opinion that only very hardy roots would live through the many cold nights of the summer months, and that the season is so short that even if they survived the cold they would not attain a size fit for use.

The river is not generally clear of ice until between the 25 th of May and the first of June, and heavy fiosts occur early in September, and sometimes earlier.

At the boundary there are two flats of several hundred acres each, one on the west side, the other three miles above it on the east side. Both of these are covered with poplar, spruce and white birch, also some willow and small pine.

In making preparations for the foundations of our house at our winter quarters near the boundary we had to excavate in the bank of the river, and in an exposed place where the sun's rays could reach the surface without hindrance from trees or other shade we found the depth to the perpetually frozen ground to be not more than two feet. In the woods where the ground was covered with over a foot of moss the frozen ground is immediately below the moss. On this the timber is generally small, and of very slow growth, as evident from the number of annual rings of growth. I have scen trees of only three or four inches in diameter which were upwards of one hundred and fifty years old.

It is difficult to form an estımate of the total area of agricultural land seen, but it certainly bears a very small proportion to the remainder of the country. I think ten townships, or 360 square milcs, would be a very liberal estimate for all the places mentioned. This gives us 230,000 acres, or, say i,000 farms. 'The available land on the affluents of the river would probably double this, or give 2,000 farms in that part of our territory, but on the most of these the returns would be meagre.

Without the discovery and development of large mineral wealth it is not likely that the slender agricultural resources of the region will ever attract attention, at least until the better parts of our territories are crowded.

In the event of such discovery some of the land might be used for the production of vegetable food for the miners; but, even in that case, with the transport facilities which the district commands, it is very doubtful if it could compete profitably with the south and east.

TIMBER FOR USE IN BUILDING AND MANUFACTURING.
The amount of this class of timber in the district along the river is not at all important There is a large extent of forest which would yield firewood and timber for use in mines, but for the manufacture of lumber there is very little.

To give an idea of its scarceness, I may state that two of my party made a thorough search of all the timbered land around the head of Lake Bennet and down the Lake for over ten miles, and in all this search only one tree was found suitable for making such plank as we required for the construction of our large boat. This tree made four planks 15 inches wide at the butt, 7 at the top, and 31 feet long.

Such other plank as we wanted had to be cut out of short logs, of which some, 10 to 14 inches in diameter, and io to 16 feet long could be found at long intervals. 'The boat required only 450 feet of plank for its construction, yet some of the logs had to be carried nearly 200 yards, and two saw pits had to be made before that $q$ 'antity was procured, and this on ground that was all thickly wooded with spre $\therefore$, pine, and some balsam, the latter being generally the largest and cleanest trinked.

These remarks apply to the timber until we reach the lower end of Marsh Lake. On the head of the river, near the lake, some trees of fair size, 12 to 14 inches in diameter, and carrying their thickness very well, could be got, but their number was small, and they were much scattered.

At the canyon the timber is small and scrubby; below it there were a few trees that would yield planks from 7 to 10 inches wide, but they have been nearly all cut by the miners, many of whom made rafts at the head of Lake Bemet, floated down to White Horse Rapids, and there abandoned them for boats which they then built.

The great bulk of the timber in the district suitable for manufacture into lumber is to be found on the islands in the river. On them the soil is warmer and richer, the sun's rays striking the surface for a much longer time, and more directly than on the banks.

At the confluence with the Pelly, on the east side of the river, there is a grove of spruce, from which some very nice lumber could be made, and on the islands below this, much of the same class of timber exists. Near White and Stewart Rivers there is a good deal of nice clean timber, but it is small. It is said there is more good timber on Stewart River in proportion to the ground wooded than on the main river.

Between Stewart River and the boundary there is not so much surface covered with large trees as on many of the flats above it, the valley being generally narrow, and the sides steeper than higher up the river. This, of course, precludes the growth of timber.

To estimate the quantity of timber in the vicinity of the river in our territory would be an impossible task, having only such data as I was able to collect on my way down. I would, however, say that one-fourth of the area I have given as agricultural land would be a fair conjecture. This would give us two and a half townships, or ninety square miles, of fairly well timbered ground ; but it must be borne in mind that there is not more than a square mile or so of that in any one place, and most of the timber would be small and poor compared with the timber of Manitoba and the casterly port of the North-west Teriitories.

At the Boundary Line 1 required, as has already been explained, a tree 22 inches in diameter at the ground on which to erect my transit. An exhaustive search of over three square miles of the woods there, though showing many trees of convenient size for house logs, and many for small clean planks, showed only one 18 inches in dianeter at a distance of five feet above the ground.

It may be said that the country might furnish much timber, which, though not fit to be classed as me:chantable, would meet many of the requirements of the only industry the country is ever likely to have, viz., mining.

The timber fit for buildings and lumbering is fast disappearing along the river, and in a few years there will be none left near here. 'I here is a portable saw-mill at Fort Ogilvie-- 100 miles above this-and one here, which yearly cut a good deal of lumber. Were all this utilized in Canada nothing might be said of it, but some of it goes down the river into American territory, in addition to which a good deal of wood and logs are cut on our side and floated into Alaska where it is sold. Some men make a business of this, and on this
at least the department might collect dues. There is very little good timber on the American side of the line, hence the demand for our timber.

## MINERAL RESOURCES.

## (rrom ogilvie's reports.)

The gold heretofore found and worked in this district has been all placer gold. Search was made for it occasionally by us along the lakes and river as we descended, but with the exception of the colors mentioned at the quartz ledge on Lake Bennet, none was found until after we had passed Lake Labarge, about six miles below which, at a sharp, short bend in the river we found in a bar many co'ors to the pan. It may be said generally that colors are found anywhere on the river between that point and the boundary, and also on the tributaries which have been prospected.

It is probable that we have not less than 1,400 miles of stream in our part of the district, upon all of which gold can be found.

About eighteen miles below the Teslintoo I saw the first place that had been woiked for gold. Here a hut had been erected, and there were indications that a party had wintered there. Between it and Big Salmon River, six other locations were met with. One of them named Cassiar Bar was worked in the season of 1896 , by a party of four, who took out $\$ 6,000$ in thirty days. They were working there when I passed in 1887, but stated that all they could get that season was about $\$ 10$ per day, and that it was then (3rd August) about worked out. At the time of my visit they were trying the bank, but found the ground frozen at a depth of about three feet, though there was no timber or moss on it. They had recourse to fire to thaw out the ground, but found this slow work.

Two of this party subsequently went down to Forty Mile River, where I met one of them. He was a Swede, and had been gold mining for upwards of twenty-five years in California and British Columbia. He gave me his opinion on the district in thesc words: "I never saw a country where there was so much gold, and so evenly distributed; no place is very rich, but no place is very poor, every man can make a 'grub stake' (that is enough to feed and clothe him for a year), which is more than I can say of the other places I have been in."

In conversation with Mr. T. Boswell, who, as already stated, had prospected the Teslintoo, or Newberry River, in the summer of 1887 , I learned that the whole length of the river yielded fine gold, generally at the rate of $\$ 8$ to $\$ 10$ per day: but as the miners' great desideratum is coarse gold, they do not remain long in a country in which only fine gold is found-generally no longer than is necessary to make a "grub stake," unless gold is in unusually large quantities. Mr. Boswell therefore went to the lower part of the river, having heard the reports of rich finds.
tewart River was the first in the district on which mining to any extent was cone. In 1886 there was quite a number of miners on it engaged in washing gold and they all appear to have done fairly well. Their exact number I could not ascertain.

I have heard the amount of gold taken from off Stewart River in 1885 and 1886 estimated at various amounts. One estimate was $\$ 300.000$, but this
must be excessive. The highest amount I heard as representing one man's earnings was about $\$ 6,000$. This may be true, as many agree that $\$ 30$ per day, per man, was common on many of the bars of the river, and instances of as high as $\$ 100$ per day having been earned were spoken of.

The only mining done on Stewart River was on the bars in the river ; the bench and bank bars were all timbered and frozen, so that to work them would entail a resort to hydraulic mining, for which there was no machinery in the country.

During the fall of 1886 , three or four miners combined and got the owners of the "New Racket" steamboat to allow the use of her engines to work pumps for sluicing with. The boat was hauled up on a bar, her engines detached from the wheels, and made to drive a set of pumps manufactured on the ground, which supplied water for a set of sluicing boxes. With this crude machinery, in less than a month, the miners cleared $\$ \mathrm{r}, 000$ each, and paid an equal amount to the owners of the boat as their share.

Forty Mile River is the only river in the district on which, up to the fall of 1888 , coarse gold had been found, ard it may be said that much of it can hardly claim that distinctive title. The largest nugget found was worth about $\$ 39$. It was lost on the body of a miner who was drowned at the canyon. Several other nuggets of much less value have been found, but the number of pieces which one could call "nugget," are few.

The miners term Forty Mile a "bed-rock" creek-that is, one in the bed of which there is little or do drift, or detrital matter, the bottom of the river being bed-rock. In many places this rock has been scraped with knives by the miners, in order to gather the small amount af detritus and its accompany. ing gold.

Very little of the gold on this creek was found in Canadian territory, the coarsest gold being found well up the river. The river had been prospected in 1887 for upwards of one hundred miles, and gold found all the way up. The great point with the miner is to find where the gold comes from. Tu do this he has to reach a point on the river where there is none; then he knows he has passed the source, and will search in side valleys and gulches. The theory seems to be that the gold is stored up somewhere and dribbled out along the river.

Pieces of gold-bearing quartz had frequently been picked up along the river in the shallow drift, but none had been found in place, nor did it appear to me that much search had been made for it. Near the mouth of the rive: there is an extensive flat of detrital matter through which a couple of small creeks flow. This is all said to be gold-bearing, and, it was thought, would pay well for sluicing. Accordingly, a couple of claimants had staked off claims at the mouth of the creeks, and intended to try sluicing in the season of 1888 . I have not heard how the venture succeeded.

Stewart River was pretty well worked for two seasons, $1885-86$, by about forty men, some of whom made at least $\$ 5,000$. Assuming that they averaged half that amount, we have $\$ 100,000$ as their earnings. Forty-Mile River, the only other stream from which any large quantity has been taken was worked in the summer of 1887 by about three hundred men, many of whom spent only a few weeks on the river, some only a few days. 'The statement made by those
of whom I inquired was that all who worked on the river for any length of time made a "grub stake." l'utting this at the lowest value I placed on it, $\$ 450$, and assuming that two hundred and fifty men made each this sum, we have $\$ 112,500$ as the amount taken out on this stream. I have heard the sum placed at $\$ \mathrm{r} 30,000$.

All the gold taken from the other streams by prospectors would not amount to more than a few thousand dollars, so that it is probable the total amount taken out of the whole district is in the vicinity of a quarter of a million dollars, of which about half was taken out in our territory.

Very rich placer diggings are now being worked on the creeks flowing into Sixty Mile, part of which are supposed to be in Canada. I shall be able to say definitely when I produce the line so far where they are and how much we have of them.

Except in the vicinity of Forty Mile there appears to be nothing doing in the way of quartz prospecting.

Last season good placer mines were found on the Hootalinqua-Teslin of Dawson-with coarse gold in them, and there will probably be a lot of claims worked there next season. Several miners were wintering there to commence operations early in the spring. A great deal of improvement has been introduced in the working of placer diggings, which has much increased the output. The miner instead of putting in the winter months in the town and saloons remains on his claim all winter, cutting wood in the earlier months, with which he builds fires and thaws the frozen gravel, piling it up to be washed as soon as the flow of water in the spring will permit. In this way the work is more than doubled, but as the supply of wood is very limited, except on the main river this cannot be done. Had the season been more favorable I would have visited Giacier and Miller Crecks which were generally supposed to be in Alaska, but are found to run in Canada for some distance. They are the two richest creeks yet found on the Yukon and are both tributaries of Sixty Mile River. Both creeks are fully lucated and worked, each claim being 500 feet along the creek and the width of the valley or creek bed. There are nearly 100 claims, all of which pay well. One on Miller Creck I understand will yield 75 to 80 thousand dollars this season, and the owner will net, it is said, between 40 and 50 thousand dollars. He took out, it is reported, neariy half that s.m last year off the same claim, and expects to do equally well next year. This is much the richest claim yet found, but all on these creeks do well. There are many other creeks in this vicinity yet to be prospected and some will I have no doubt. pay well. Gold is found all along the valley of Sixty Mile River, and under more favorable conditions, both mercantile and climatic, it would yield good results to large enterprises. The mercantile conditions will improve; the climate is a serious difficulty but will be surmounted in time I believe. Along the last 10 or 12 miles of this line I ran, the mountans consist principally of quartz and schists, which, no doubt, originally held the gold found in the valleys and doubtless ho'd soase yct. Several men have taken to quartz prospecting and found indications which I will dwell on later. I believe we are on the eve of some magnificent discoveries.

## General Information.

Who Should do? -In his report to the govermment Mr.A.E. Wills, assistant surgeon to the Mounted Police in the Yukon district, gives many valuable hints not to be found elsewhere. Among these is one on who should be selected for Police duty. What applies to policemen in that region applies equally to everyone else. This hint should be duly considered by everyone intending to try their luck in the Klondyke. It is as follows:
"Men should be sober, strong and healthy. They should be practical men, able to adapt themselves quickly to their surroundings. Special care should be taken to see that their lungs are sound, that they are free from rheumatism and rheumatic tendency, and that their joints, especially knee joints, are strong and have never been weakened by injur;, synovitis or other disease. It is also very important to consider their temperaments. Men should be of cheerful, hopeful dispositions and willing workers. Those of sullen, $m$ rose natures, although they may be good workers, are very apt, as soon as th velty of the country wears off, to become dissatisfied, pessimistic and mek . y ."

Miners' Cabins.--The same authority thus describes the miners' eabins: "The regulation miners' calsin is 12 feet by it feet, with walls six feet and gables 8 feet in height. The roof is heavily earthed and the cabin is generally very warm. Two, and sometimes three or four men will sometimes occupy a house of this size. 'The ventilation is usually bad. Those miners who do not work their claims during the winter confine themselves to these small huts most of the time.

Very often they become indolent and careless, only eating those things which are most easily cooked or prepared. During the busy time in summer when they are "shovelling in," they work hard and for long hours, sparing little time for eating and much less for cooking. This manner of living is quite common among beginners, and soon leads to debility and sometimes to scurvy. Old miners have learned from experience to value health more then gold, and they therefore spare no expense in procuring the best and most varied outfit of food that can be obtained.

In a cold climate such as this, where it is impossible to get fresh vegetables and fruits, it is most important that the best substitutes for these should be provided. Nature helps to supply these wants by growing cranberries and other wild fruits in abundance, but men in summer are usually too busy to avail themse!ves of these."

It might here be stated that since the above report was sent in, it has become the rule for practically ceverybody to work their claims in winter as well as in summer. Yet it should be horne in mind that, owing to the high latitude, the winter day is very short, so that, at the best, more than half the time must he spent in the cabins. According to Mr. Ogilvie, the method adopted by miners for working in winter is as follows: "They make fires on the surface. thus thawing the ground until the bed rock is reached, (led-rock simply means that drift or detrital matter goes no further down) then drift and tunnel ; the product is brought to the surface and heaped in a pile untif pring when water can be oltained."

Notes on tife Climate.-As is well known the climate is extreme in the Yukon basin. The thermometer in winter often registers as low as 70 below zero. While in summer it runs ul to wo above. As a rule winter sets in about the middle of September and continues until the beginning of lune, and is decidedly cold."-Ogilvie. However, the average cold in winter is not nearly so great as bere indicated. The following shows the mean minima in the months stated, as recorded by Mr. Ogilvie in $1887-8$, at a point just east of the ryist meridian on Vukon river: For October (' 87 ) the mean minimum "as is : for Nor.. $5^{\circ}$ : for llee. $33^{\prime}$ : for Jan. ( 88 ), $25^{\circ}$; for fel). $16^{\prime \prime}$. The thickness of ice on the river was at stated times, that season, as follows: Ice set Nov. ${ }^{5} 5^{\text {th }}$, thickness of ice 1 ec. 1 st $141 / 2$ inches: lan. $3 \mathrm{ral} 401 / 2$ inches : lieh. 3rd $_{4} 8$ inches: March 3 rd $481 / 2$ inches. As Ogilvie on the 3 rd of March made pparations to start for the MeKenzie, his observations for that season go th "ther. In this connection it is interesting to give the remarks of Assistant Surgcon A. F. Wills on the climate, as follows:
"The climate is wet. The rainfall last summer was heavy. Although there al:iost a continuous sun in the summer time evaporation is very slow owing to the thick moss which wifl not conduct the heat, in consequence the ground is always swampy. It is only after several years of draining that ground will become sufficiently dry to allow the frost to go out and then only for a few feet. lhuring the winter months the cold is intense with asually considerable wind.

A heary mist rising from open places in the river settles down in the valley in ca s extreme weather. This dampness makes the cold to be felt much more ani is conducive to rhemmatic pains, colds, etr."

Retail Prices at Dawson City.-Considering the distance supplies of all descriptions have to be brought to lawson City, that wonder town of the the frozen north, which by this time has about 4,000 of a population, prices of all kinds of necessaries may be said to rule surprisingly low, beef and tresh, meat of all kinds excepted, which up to this time is scarcely less than $\$ \mathrm{x} .00$ per pound, when at all procurable. Many are inclined to believe that starvation is in store for the district this coming winter, because so many are rushing there without the required means. If it be so, it will not be through the prohibitwe price of supplies, but solely because there will be none to sell. Merchants have but a short season each year in which to bring in their goods and
transportation facilities being sadly lacking, it is quite impossible for them to provide the supplies required by the ever increasing army of gold-hunters, so many of whom, as previously stated, carry little or no supplies, but are wholly dependent on the traders in the camp. It is on this aecount that the advice is never too often repeated: do not start for the Yukon unless you can take with you one year's supplies for yourself, and bear this in mind also, that what would he ample at bome will by no means suffice you as daily rations in the frozen north. The publishers can not guarantee that the appended price list of store goods at I)awson ('ity is strictly correct, but these were the ruling prices carly in July, 1897 :
 per doz, fairly good eggs $\$ 2$ per doz. butter $\$ 1.50$ per roll: rice per $\mathrm{lb}^{2} 25$ cents: heans per lb to cts; flour per $100 \mathrm{lbs} \$ 12:$ bacon per ll , to cents: moose meat per lb 65 cents: salmon, each $\$ 1.50$; potatocs per ll 25 cents: turnips per $\mathrm{ll}_{15}$ cents; dried fruit per $\mathrm{lh}^{2} 35$ cents: canned fruit per can 50 cents: canned meat 75 cents; lemons per doz $\$ 2.40$ : oranges per doz $\$ 6$; tohaceo per $\mathrm{Hb} \$ \mathrm{t} .50$ : coal oil per gallon $\$ 1.50$ : underwear. per snit $\$ 5$ to $\$ 7.50$ : overalls $\$ 1.50$; shoes $\$ 5.00$ : rubber boots $\$ 10$ to $\$ 15$ : shovels $\$ 2.50$ : picks $\$ 5$ : rough lumber per 1000 fect $\$ 150$.

Hints on Pack Travel. It is a very important matter to have the supplies properly packed to guard against damage by water and rough handling. The packs are made up to weigh about seventy five pounds. F'irst they are put in canvas bags, and then are wrapped secmely in oil cloth. Should they be exposed t., rain:, dropped in the wet snow, or exell immersed for a short time in the river, practically no damage will result.

For a rocky country the mule is preferable to the horse, for he will live where a horse will starve, he will carry a much heavier load, and is more sure footed. In a swampy country the horse is preferable as his larger hoof preveats him from sinking in the mud, and if he gets mired be will struggle out of the difficulty, which the mule will not do.

The best pack horses to use are the small momatain bred ponies that will carry from 225 to 250 ll s . The average mule will carry from 300 to 350 lbs . The aparaleo is far preferable to the pack saddle and if properly looked after, will prevent the backs of the amimals from getting sore. A days journey for doaded pack ammals, should be not more than 12 or 15 miles. The journes should be made early in the morning before the llies get ba , and the anmals turned out to rest and feed by 10 a.m. Smadges should be made to cnable the animals to rest in the smoke but they must be watehed or the animals will. when the flies are bad, get into the fire and burn themselves badly.

# Latest Information on the Routes. 

## THE ST. MICHAEL'S ROUTE.

(OGHLVIE'S LATEST REPORT.)
It is a common occurrence to be delayed hours, and even days, on bars and on what is known as the Yukon flats, just below Circle City. Not once is there difficulty of this kind found in our part of the river, but in the Alaska portion it is an every day occurrence for a steamer to stick. I know of one steamer that stuck for three weeks, another that was on a sand bank for four or five days till another steamer came along and bunted her off, and then stuck on the same har herself-and l don't know how long she stayed there.

The navigation of the Yukon river in the upper part is open from May till the middle of October; while at the mouth it is not open before the ast July, and navigation does not last longer than the rst of October-that is only from two and a half to three months-and it takes river steamers fourteen, fifteen and saxteen days to get up the river to Dawson. St. Michael's the headquarters of the river boats, is so miles from the mouth of the river, and only in calm weather can the steamers cross that bit of open sea.

The vessels that are engaged at present mavigating the Yukon. The Alaska Commercial Company have two large steamers, the Alice and the Bella, besides smaller ones named Margaret and the Victoria, last being named after Queen Victoria, as it was built in the Diamond Jubilce year and launched about the time of the Jubilee. There were also two other small steamers belonging to the company rumning at the mouth of the river. The North American Transportation and 'Trading Company have three steamers and contemplate putting on two more next summer.

## "THE DALTON TRALL."

J. J. MeArthur, who has bee: engaged exploring the trails leading from the Chilcat inlet west, known as the l alton trail, was out in the interests of the government of Canada and believes these trails are practicable, but will require a great deal of improvement before a large party can go over, as the trails would be liable to get cut up badly when any great amount of stuff was freighted over.

In speaking of the llalton trail recently, Mr. Ogilvie said :-
Of the lalton trail I know nothing by personal observation-only by report. I had an interview with Mr. Dalton, from whom the trail is named, in i 896 , and I have also talked with Mr. McArthur, our surveyor, who has spent
some time in that district recently. Of course the substance of his report cannot be divulged at present.

The summit of this trail is about forty-five miles from the coast and 3,000 feet above the sea, the watershed is about 75 miles from the coast and Walton's trading post 100 miles from the coast. Thence to the Pslly is 200 miles further. This route parses over a nice undulating plain, well timbered in the valleys and with grass on the slopes, but not enough to feed any number of animals. The first 34 miles of the lialton trail is in disputed territory, the rest of it in Canada, just as is the case with the Dyea and Skagway trauls.

Mr. W. Ogilvie's latest report on the Taku route is as follows :-
In 1894 and 8895 I was employed to go in that portion of the country. Taku Inlet is something about eighteen miles long, and leads up to a glacier of much greater size and affording considerable more danger to boats than the much talked of Muir glacier in Alaska. The ice is cast off in great avalanches and is continually breaking off. I have visited the Muir glacier and have never seen a breaking take place; whereas in Taku, where I remained for three weeks, I saw large bodies of ice break away every day, which in every case create a surge in the water that is dangerous to boats even to so great a distance as three miles away from the glacier. This 'Taku river extends for sixty miles. There are enormous gravel bars which render it impossible for stemboats to navigate it, although it is said they might during the months of June or July-or during the warm weather. From the forks we go up by the le $\{$ t-hand branch about nine miles over to Tagish lake. Along this route we meet with no very great difficulties, and keep up about nine miles, going past the Silver Salmon creek. In regard to this route I may say, however, that I have not examined any considerable portion of it, but civil engineers are now exploring it and their reports will of course be made publ

From the summit there will be no difficulty in constru tung in roml to the head of Teslin lake. We have here then, two roads-one of they (stukime) offering almost perfect advantages with the additional greater one that it "an he called an all Canadian route if we choose to so name it.

Mr. Ogilvie, on November 5 th, in Victoria, gave the following up-to-date sketch of the Stikine-'「eslin lake route :--

Leaving Victoria by any one of the steamers which run from here, we make our way through the well known Seymour narrows, taking care to time that passage to reach there at a suitable stage of the water, for it is well known that no ship can go through except at either high or low tide. In a few days, according to the capacity of the steamer, we reach Port Simpson, the most northerly seaport in British Columbia or Canada on the l'acific ocean. If we wish to make our way in British bottoms we can here take the river steamers and proceed from Port Simpson to Wrangel, it being about 170 miles from the former point to the mouth of the Stikine river ; proceeding up that river about 150 miles, or perhaps a little less distance, as will be proved when the surveys
are made for the proposed railway facilities. That distance oecupes sixty hours or a little more. From the head of the stikine, the road would follow through an undulating country which presents no olstacles to railway construction, and for the greater part of the distance of 150 miles is pretty well covered with timber. I would mention, however, that the natural food supply available for horses will not be sufficient for any great number. It might be said that enough would be found, for say, two hundred head, but any great number would soon eat off what there is, and it will be necessary that such errangements shall be mude as will render it possible for the natural supply to be increased hy importung sufticient for any momber over and above that.

Arriced at the head of Teslin iake, we produce our whipsaws and commence to get out lumber for our boats. Now, whipsawing has been said to be one of the inventions of satan, and when two are doing that work it is necessary for success that one shall push and the other shall pull: Dut when, as is too often the case with the tenderfoot, both either pull or push, there is likely to be some enguiry from the man who is above what the other fellow is doing, and there may be some uncomplimentary lang age incluged in, and the mantelow ask his partner to come down and have it out. Ind if the same man below gets a grain of sawdust in his eve during the progress of the quarrel there will be quite a sulphurous atmosphere for some time. After a while though in spite of these difficulties the boat will be fimally got ready, and then commences the trip down the 'lestin lake, which is 80 miles long and bounded on both sides by high mountains. This distance is of course only as 1 have been tokd. We arrive at the head of the Hootalinuma after traversing the lake. This river is marked on the map as being the 'Teslin, which is the Indian name for a fish which is caught in the lake. 'The Hootalingual river is about 125 miles longor a total distance from Victoria to Dawson ('ity by way of the Stikine, 'Teslin and Hootalinqua route, of 1,600 miles. It two points, one near the head of the river and one quite a distance below, there are obstacles in the way of steamboat navigation at certain times of the year, during certain stages of the river. A few miles below, the river broadens out into immmerable channels until at last, at the fower end, it widens to two and a half miles. If one of these channels were deepened out. a sufficient depth of water could be obtained to allow a free passage for a stemmer drawing three or four feet without dificulty.

The lort Wrangell, Glenora and Lake Teslin Tramsportation Company "will have a line of stemers plying between Puget Sound ports to head of navigation on Stikine river, a distance of about $\mathrm{I}_{3} ; 0$ miles from Fort Wrangell, and then pack trains across the portage from the river to Teslin lake. One thousand horses will be utilized in the service, and on 'leslin lake and water course to Dawson City a series of boats will be put on, which are now in course of construction. The company is in a position to book passengers from any part of the world direct to Dawson City, and the cost from England, first-class, will be $\$ 1,000$, and second-class $\$ 700$, which will also include the transportation of supplics, etc., for a year."

Irrangements have been made by which horses can be taken through the Aaskan Territory along the Stikine in bond.
E. J. Duchesnay, C. E., who was sent up to examine the Stikine Route by the C. I'. Ry. Co., left Vancouver on September 14th, and returned in 7 weeks, having been delayed a week waiting for a steamer at I'rangel. He went up the Stikine by canoe and then walked to 'Teshn Lake. The weather was good and no difficulties were encountered so that it would seem that railroad building will be easy: On his way in Mr. Duchesnay overtook Mr. Jennings, the surveyor sent out by the Jominion government to ascertain the most feasible route to Yukon. He returned in company with Duchesnay after sending two parties, one in charge of a con of Willian Ogilvie, the well known surveyor, to explore the Hootalingua River. On his trip Mr. Huchesnay met a number of miners en route to $\mathcal{K}$ londyke and he expressed the opinion that all of them will get to Dawson (ity this season.

Frank York, of V'ictoria, who is building a steamer to ply on Teshn Lake, says the journey from there (o) Dawson City cam be made by steamer in three days, so if a railway is built by the C.P'.R. between stikine River and 'Teslin Lake, the inumey can be accomplished with ease.
R. H. Hall, of the Hudson's Bay Company, authorizes the statement that a new boat will be built by his company at once for service on the stikine River, and will be ready in time for the spring rush. In addition to the new boat, the Caldonia, extensive alterations of which have been decided upon, will also be used in the companys trafic and the eompany are also holling themselves in readiness to compete for the general transportation trade, which will offer in the new year Mr. Hall, who had years of experience in the northern regions, is an enthusiastic advocate of an all-(Canadian ronte via stikine and Teslin Lake. He says that if the railway projected be not completed in time, it would be a comparatively easy matter to acommodate the rush by building a wagon road from (ilenora to the lake, and no donht something will be done in this direction. Wharfage facilities at Wramel will atso he inereased, and the company are generally making arrangements to provide for the demands of trasel by this route.

Stikine navigation opens, about $1 \mathrm{~g}^{\text {th }}$ May and can be kept npen seven months in the year. Mr. Robert Kerr, tratice manager of the C.P.R. west, says: "We are putting on a tleet of steamers of our own from Vameouver, running to Dya and Wrangle, to accommodate those eroing over the passes or going over the lower route to the stikine River. We are parchasing the boats in the old country where they are now beins construl. d . The boats will have a tomage of about , 3000 tons each and will be in keeping with our local service on the Pacife, being well fitted to carry freight and passengers. No expense will be spared to meet the repuirements of travellers. We will also have a railwy line, narrow guage, from ( blenora, the head of navigation on the Stikine River to 'Teslin lake, about 120 miles, from which point it is casy sailing or rafting into Dawson. It is slow but sure from 'leslin Lake down to the Klondyke metropolis. I expect the rush will start early in March by which time we will be well prepared for it."

It is believed when the Railway is built that Dawson could be reached in

Io days from Victoria. The only steamer plying at present on the Stikine River is the "Alaska," Captain, J. D. Tackerberry.

Mr. N. Wallingford, of Seattle, and a number of British Columbians intend to run a line of steamers to Wrangel, -from there operating river steamers to Telegraph Creek-whence pack trains will carry goods to Teslin Lake and there connect with steamers which the company will put on the lakes.

In November Mr. J. S. Bowker, of Glenora, on the Stikine River, made the trip from Glenora to T'eslin lake and return in twenty days, including. four days spent at the lake, not bad time. And when in addition it is learned that the trail runs through a country affording feed for thousands of head of stock, and in which hundreds of ranchers could make excellent livings, it will be seen that Mr. John S. Bowker has good reason to speak in terms of warm commendation in regard to the Stikine route. He says, too, that game of all kinds is abundant, and on his return trip he killed a caribou which provided more fresh meat than could be used by the party. As a railway route, Mr. Bowker considers the Stikine most feasible, and now that a "cut off," saving about twenty miles, has been discovered, he believes it to be the best sleighing. route known.

The lork party are now engaged in widening this portion of the trail to make it more suitable for sleighing, and the only obstacle, the Teletan river, is so easy of navigation as to be hardly deserving of being called an obstacle at all. He says that he will establish a pack train from some point near the head of navigation on the Stikine to Teslin, which will be sufficient to convey the goods of a great number of those who will go in that way next spring.

Mr. A. F. Cotton, I'. L. S., acompanied Mr. Bowker in exploring the Stikine River rente as a $^{2}$ a winter way into the upper river country, and incidentally they found very rich mining ground on the upper Hootalinqua. During the absence of the party of which he was a member, Mr. Cotton says they have located a route hitherto untravelled, and taking in several streams that are not delineated on any existing mips. By these streams and a crossing of Teletan River, he states that it is possible to reach Dawson with only six miles of land travel from Teslin liake; and so convinced is he of the practicability of the new trail that he is willing to take two tons of provisons into Datwson this winter, counting upon making delivery of them within thirty days after leaving Victoria.

John Hyland, of 'Ielegraph Creek, says:-(Victoria Colonist)—From 'T'elegraph Creek to Lake 'Teslin is roughly 153 miles, and the chief difficulty to be encounterf, in the building of a first-class trail is the marsh land seattered at infrequent intervals and necessitating corduroying. This swamp land is not continuous by any nieans, in fact the longest strip would not extend for more than three miles or thereabouts, but while it is there to wear out the pack animals satisfactory results cannot be obtained. In the work of corduroying the trail, builders will have the advantage of an abundant supply of timber, but as some of it will have to be transported to the marsh land that is not
timbered the fact emphasises the urgency of immediate action as anyone can see the propriety of getting the timber out during the winter when it can be cheaply and conveniently transported by sleighs to where it will be required by the road builders. Two beidges will also be required, the first at Talbal, 2 I miles from Telegraph Creek. The current here is very swift but the stream is shallow and construction would be greatly facilitated by the solid gravel banks and the fact that by going a short distance down an island is found in midstream which could be well utilised. To bridge at the regular crossing of the trail would not however involve any difficulty, and the total cost of the necessary structure at this point would not exceed $\$_{1,000}$ or $\$_{1,500}$. The same argument as to the advantage of getting out the timber for the bridge during the winter months applies with equal force, while by so doing it would be possible to complete the work in the spring before the demand came.

The second bridge referred to is required at the Nialine River, a somewhat wider stream than the Talbal, but like that creek presenting no formidable obstacles. It too is swift but slallow and the banks are firm and reliable. Much of the marsh can be avoided lyy a slight divergence of the trail which at the same time would not necessitate any material sacrifice of distance. There are two stretches which could be considerably reduced without making the road any harder for men or animals.

The country traversed by this trail could scarcely be better than it is, open as a rule wiuhout any formidable hills and producing plenty of grazing all the way along. Packing can be continued from the 20 th of May until the 15 th October, the animals foraging for themselves, althougl. it is better to supplement the grasses on the first and last trips of the season with a fer: pounds daily of carried feed. No mining to amount to anything is as yet being done along the trail, but colors can be found anywhere and the various tributaries of the Talbal branch give really promising indications.

When I left Telegraph Creek it was a populous and busy little place and from it camps strung out for miles along the trail. The majority of the pilgrims will winter where they are, or else sled it over to Teslin lake during the snow season and put in their time prospecting until the lake and rivers clear of their ice.

Of course it is desirable to keep to the river as long as possible and shorten proportionately the packing over the trail. At present the chief obstacle in the river is the riffle above Cilenora, where, at extreme low water, only the very lightest draught boats can now ascend, and then only by lining up. There does not appear to be much required and probably $\$ \mathbf{1}, 000$ expended in dynamite and intelligently applied would clear the course. This being done there would be free navigation to 'Telegraph ('reek at all stages of water.

## ASHCROFT ROUTE.

In the early sixties there was a project on foot to run a telegraph line
from the western states through British Columbia to Alaska and so to Siheria, known as the overland or Collin's line. While the necessary surveys were heing made and trails opened up Cyrus $\mathbb{I V}^{1}$. Field's cable was successfully laid and the scheme was abandoned.

I trail for this purpose was cleared from through Asheroft on the main line of the C.P.R.-W-Teslin I.ake-and this is claimed to be a perfectly practicable route by which to reach the Klondyke. The line was built up the Fraser River to Quesnelle Canal, then to Hazelton, Skeena River, Telegraph Creek and to stikine River. It was 120 feet wide through timber clear to Telegraph ereek, beyond Hazelton to Fort Stager : this was as far as completed. The distance to where the C.I'.R. is constructing a road to join Teslin [ake is 440 miles. Hundreds of miners went to Cassiar by this route twenty years ago and packed animals over this trail with ease and comfort. Herds of cattle were driven in and splendid feed can be obtained from May to late in the fall along this route.

Mr. S. T'. Eichellerger, who has been out in the interests of Narens Waley, fames Hamilton, and J. I. Karby, of Maconda, Montana, looking out a practical route for a large party of prospectors which the above named gentlemen intend sending into the Pace River country early next season, came down the Cariboo road to Ashcroft, having left his outfit, horses, etc., at (quesnelle. 'Io the Asherott Mining Journal Mr. Eichelberger said: "I shall strongly advocate the Ashcroft-() (uesnelle route for any partics wishing to reach Peace River or the Klondyke overland. It is through a country easy to travel, good trails, good water and the best feed I ever saw, so far as I went, and from conversation I have had while in that comntry with those who have been clear through to 'Telegraph Creek 1 am satisfied that the route can be covered easily with pack ammals from Asheroft clear through to Teslin Lake in 40 or 50 days. I was at (Quesnelle when Mr. Devereau and companion left on their trip overland in the interests of the Mining Journal, to secure a map and furnish all information of the present condition of the trail through to Teslin Lake. He stated to me that he would be able to make 'Telegraph Creek in 25 days from the time of leaving (Quesuclle. He went with a light outfit, intending to renew his supplies at Hazelton and at Telegraph Creek. His report will he of mreat interest to all contemplating the trip in the carly spring.

There is a telegraph line operated as far as (Quesnelle, which Mr. C. S. Hosmer, general manager of the Camadian lacific telegraph system says is easily maintained and that should the line be continued from Quesnelle to Dawson it will be put in operation by this time next year. 'Celegraph stations could be established every 40 miles and used in comertion with the Mounted Police and their departments.

John Shields, of Isheroft, who owns the stage line that runs between Asheroft and Barkerville, a point 300 miles north, and carries Her Majesty's mails to the Cariboo and Cassiar districts, says: "We do not expect that our business will increase to a burdensome extent, owing to the Klondyke "hoom." The greater portion of the people who go in by this route, which I think is the

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best entrance way to Klondyke, will go in with pack trains. Horses can be purchased at Ashcroft for $\$ 15$ apiece and the trail is good all the way to Teslin Lake. A traveller takes the famous Cariboo route to Quesnelle, 220 miles; then crosses the Fraser River by ferry and follows the telegraph trail 450 miles further north to Telegraph Creek."

## DOG TRAIN ROUTE.

ior the information of those desirous of making a winter start for the Yukon by dog train it may be mentioned that a dog sleigh route exists from Athabasca Landing to the Wabiscaw lakes, and thence to Fort Vermillion on the Lower Peace river. Thence to Fort Liard on the Liard river. Distance to Wabiscaw lakes from the Landing, 100 miles. Wahiscaw lakes to Trout lakes, 50 miles. Trout lakes to Vermillion, 175 miles. Fort Vermillion to Hay river, 90 miles. Hay river to Fort Laird, 135 miles. Total 525 miles. This should be made in 20 days good travelling at 30 miles a day.--Edmonton Bulletin.

## HON. CLIFFORD SIFTON'S ANNOUNCEMENTS.

Victoria, Nov. 3.-At a meeting of the board of trade today Hon. Clifford Sifton, minister of. the interior, intimated that the government would open up an all Canadian route to Yukon and that everything possible would be done to turn trade into Canadian channels, hut he declined entirely to advocate a law to prevent aliens from holding claims. Several members suggested that this should be done, but the minister entirely ignored the fuestion.

After January ist miners will not be allowed exemption from duty on 100 pounds of their baggage. Customs offices are to be established on all routes. Arrangements will be made for a good mail service and the establishment of banks and the transportation of gold.

The question of compelling miners to take ont licenses before going into the country, and the establishment of a mint will receive further consideration.

The regulations reserving alternate clams will be abrogated and claims will be reserved en bloe, but he said it would be the policy of the government to collect a royalty on the output.

There is already a post at Tagish and another is being established at Bennett. Others will be near the junction of the Hobtelaniuqua river and Lake Teslin, and at Chilkoot. The latter will be well equipped and manned.

The minister says while travelling through the country he was more then ever impressed with the absolute necessity of police and customs administration as well as administration mining laws being thoroughly provided for before spring opens up. Thousands of those that are camped along the lakes and
rivers will be on their way by February ist, and every official in the country will have his hands full from the very early period of the year. The present police force would have to be supplemented when spring opens. He did not, however, anticipate any trouble, hecause from observations he thought the people were going in delighted, above all things, that the Canadian government intended administering the law fairly and keeping order. Mr. Sifton went on to say that from careful study of reliable information he was convinced there was an immense amount of gold bearing territory in the country, not all as rich as the Bonanza and Eldorado Creeks, but which would pay well for the working if the cost of living were cheapened and means of transportation improved.

The government would try as soon as possible to open up the Canadian route. Parties were now carefully examining the pack and cattle trail by way of Edmonton, and also from Cariboo northward to Stickeen. It was of the utmost importance to merchants and companies anxious to secure a portion of the trade of the territory that they should equip themselves properly for competition. Mining regulations might have been changed somewhat, but nothing he had heard of had shaken his opmion as to the advisability of collecting a royalty and reserving for the public benefit a portion of the mineral wealth of the country. Mr. Sifton would say nothing of the dangers of the passes he had crossed beyond that the trips were rough and unpleasant.




[^0]:    * The det ichment was made nuas follows:-Inspector Constantine, Officur Commanding Vukon Detnchment N. W. M. Police; Inspector D. A. E. Strickland; Assistant Surgeon, A. F. Willis; 2 Staff Sergeants; «Corporals; 18 Constables

