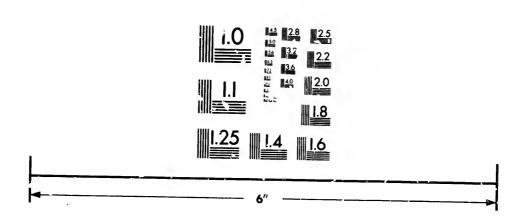
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PACIFIC

RAILWAY ROUTES, In white

Friend Brankt

CANADA.

M. MCLEOD,

" BRITTANNICUS."

A SERIES OF LETTERS PUBLISHED IN THE MONTREAL "GAZETTE."

# PREFACE.

These letters are respectfully submitted under the special circumstances appearing on their face.

I may add, however, in more distinct terms, that I have entered thus somewhat at length—yet too shortly, hurriedly and imperfectly—into this examination of railway routes across our far wilds, feeling that no one else was, it would seem, likely to do so, though needed.

To public ken, the whole thing is, and has ever been, it may be said, a sealed book; and yet, on a true appreciation of it—of the great scheme in all its features and bearings—can we—the people of Canada—alone grapple it with that courage and determination, and stern honesty of purpose, which it demands.

# PACIFIC RAILWAY ROUTES.

CANADA.

LETTERS ADDRESSED TO THE EDITOR OF THE MONTREAL GAZETTE, AND PUBLISHED IN THAT PAPER IN THE COURSE OF JUNE AND JULY, 1874.

Sir.—The importance and urgency of the least known of the regions in question-regions untouched by blue-book, and much untouched by even traveller's tale. Five years ago, when first the scheme of a Canadian Pacific Railway was mooted, I, under the nom de plume Britannicus, wrote a series of letters, defining descriptively, in advance of all did not speak of this particular one)-Montreal to the Pacific. That was during the session of Parliament (Dominion), and the information given was practically acknowledged in the House and by the Press. All survey since then, over the Lower Fort Garry (Red River), via South the sea.' end of Lake Nepigon, my sections, as projectively given in 1869, aggregate 970 measured or even given any sort of estimiles. Mr. Fleming's report, as the mate of the altitude of this important result of instrumental measurement along gateway to our new El Dorado. Mr. the same objective points, is 973 miles. Only three miles of difference! On despatched, on the strength of my actual location of the line we may differ representation, a branch expedition even less. His section at this part is run out, however, to Lake Manitoba, "65 miles" (as he states) beyond Red River, which makes his total to that point "1038 miles," as shown in section sheet 9 in his report.

As to the rest of the route-route for railway with its elongation by curves and gradients in conformity with the physical features of the country—my estimates are equally well borne out by Mr. Fleming's report, but that in a manner requiring elimination from his different section sheets, and as I shall hereafter demons-

As to the Peace River Pass, Mr. this subject are such, I humbly think, as fleming, in page 13 of his report, has to warrant my obtrusion with a few obserbeen good enough to give me credit for vations which may, possibly, be of some bringing it to his notice. Of this more little value in the way of information to anon. In the meantime, as to it, I have, all or most concerned. Accidental cirin limine, to say that the height assigned cumstances, alluded to by Mr. Fleming to it by me was a mere estimate by myself, in his report (page 13), viz., my early life on data given in large detail and tabusin the far North-West and British lated form in my pamphlet, "Peace Columbia, and the possession of my father's papers, reports, journals, maps, and pages 92, 93 and 96 of text, and also father's papers, reports, journals, maps, and pages 92, 93 and 96 of text, and also &c., respecting those wilds, have enabled in the preface to the work. My object in me to give some useful information as to doing so was, as I state in the preface "to direct attention at this juncture, to "the particular fact, as a present objec "tive point, that the lowest, easiest "and best Pass of the Rocky Mountains, "in fact the only one which presents— "say by such a Territorial Trunk Road" (i. e. such kind of road-for Mr. Fleming others, a feasible line for railway from "as Mr. Fleming in his memorial to the "Imperial and Canadian Governments "proposed in 1863—a practical gateway to the Pacific Slope, to the waggon of "the settler, is the Peaco River Pass, and "which is less—I make it—than eighteen greater part of the vast, utter wild in "hundred feet above the sea." The question, has but confirmed the truth and correctness of my statements and estimate to "Peace River." The precise mates in every particular. For instance, figures as worked out and given for as to the distance from East Nipissing to height of the Pass were "1750 feet above

> No one, that I am aware of, had ever Fleming, as he states in his report, from Edmonton in the Fall of 872, via that Pass, placing in the hands of his staff, for guidance, my pamphlet with its jour-nals of travel from Hudson's Bay to the Pass, and thence to the mouth of the Fraser, viâ Kamloops, showing the great land in its length and breadth. I refer to this incident, for I perceive that, some way or other (see Canadian Monthly of May last) Mr. Horetsky, the gentleman who, from his chief at Edmonton, got my pamphlet as part of his instructions, has received all the credit of bringing this Pass into notice. Mr. Macoun, botanist, his campagnon de voyage, does me, in his re

port, better justice. But to proceed. The height of the Pass, i.e. of the water level of the Peace River, in its passage across the Rocky Mountains, has been since measured by Mr. Horetsky, with aneroid, by observations taken at different points, and has been laid by Mr. Fleming it precisely that height, (see his section sheet 7 of Report at the point marked " Finlay River") the western or upper end of the transverse passage of the river through the range. The next object on the route, westwards, of which I gave an estimate of height, was "McLeod's Lake," on the Pacific slope of the range, and which I laid at 1,900 feet above the sea. Measured since by Mr. Fleming's staff, with aneroid, he gives it-in his said section sheet 7, at "1,850 feet above the sea." The next height given by me is that of "Stewart's Lake," forming, with other large lakes, the trough of the northern half of British Columbia, This I laid at 1,800 feet above the sea. After careful measurement since by Mr. Horetsky, with aneroid, Mr. Fleming's Report gives it, in said section sheet 7, at that, precisely I may state in explanation that I went into this matter of heights to show that this northern plateau of British Columbia is low enough to admit of profitable agriculture and advantageous settlement, rotwithstanding its high latitudes, viz., from latitude 53° to 56°; and more over, that it offers probable easy, or comparatively easy access, by territorial roads, and ultimately, perhaps, by railway-i.e secondary railway-across British Columbia.

For a transcontinental railway, however,—one to be the shortest and best possible between Atlantic and Pacific ports, and wholly on British ground,—I, at the very outset, advocated the Yellow Head Pass (old familiar ground to me), and thence, as indicated by the green line in my map to the "Peace River" Pamphlet, to Bella Cools, at the head of the North Bentinek Arm. Allow me to give, from letter 8 of my Britannicus letters of 1869, already alluded to—see slip sent you—a summary of sections of the route proposed by me:—

Length Cost Terminal Points Miles. per mile. Total. Montreal to Ottawa, via Vandrenii.....
Ottawa to summit between Lake Nicissing and ottawa River. Nipissing to Michipicoton River.....
Michipicoton River to Fire Steel River...
Pire Steel River to Selkirk (Red River) Settlement.... 25,000 2 625 00 190 30.000 11,120,000 820 35,000 810 40,000 Bettlement.... 85,100 840

Total	2,665		\$90,245,000
Cools (North Res-	400	60,100	24,000,000
Pass (Yellow Head) Millon Pass to Bella	250	80,000	7,500,000
Selkirk (Red River) to Edmonton Edmonton to Milton	750	20,000	15,000,000

So I wrote, and so all Parliament read, in June-July, 1869. Since then, as we all know, "cost"—iron, labor, &c.,—has increased at least 25 per cent—but on this branch of the subject I enter not. It is of routes—and as known to me—that I would speak. In giving the above facts there is, I feel, a seeming egotism. It is repugnant to me; but I must show credential, and present some measure of eredibility in this pleading. Shall continue in my next.

Yours, M. McLEOD.

Aylmer, Q., June, 1874.

## LETTER II.

Sir, -- As the work of construction of the great iron road in question must, in the main, be from nearest Atlantic port -Montreal-and thence, from shiphold with railway plant from England, and elsewhere perhaps, I assume, for the nonce, this port as a starting point. Thence to the south-east end of Lake Nipissing, the line, as reported by survey, throughout its course of three hundred miles of the Ottawa Valley, presents every facility for railway - with an average gradient of only about two feet per mile, and, probably at no point-none so far as I know, and I have passed over three-fourths of it-none, I say, exceeding ten feet per mile. I speak from personal knowledge and the reports of Messrs. Shanly, Clarke, Keefer (T. C.), Kingsford and Legge, all civil engineers of high repute. By the last named gentleman, the line along the north side, crossing at the Matawan, and thence to the south-east end of Lake Nipissing, has just been examined in exploratory survey, and has been, as your columns showed, most favorably reported on. On the south side from Pembroke upwards, I am not aware of any explorations for railway line having been made, but from what I know of it, al-5,700,000 though not a civil engineer, I think I can safely say, as I did in 1869, there is a good line for railway. I hope to see, 12,400,000 within two years, on both sides of the Ottawa, to Eastern Pacific Railway terminus 11,900,000 at Nipissing, railways that shall serve as

freightways from Atlantic seaboard, and |" to 1200 feet above the sea; at one from American and our own munufactories of railway enginery and other plant. With " return freight in lumber, and perhaps grain — western grain — from port at French River, there would, I presume, be profitable business for half a dozen railways to and from different points, viz., Ottawa, Toronto, Kingston and Montreal, and even perhaps Quebec, not to speak of other lines, Canadian and American, connecting with other Atlantic ports and "quence, about 25 or 31 miles of the market points.

The other points for initiatory work in construction which present themselves are. Sault Sto. Marie-if the line be thither bent-and the head of Nepigon Bay; and, perhaps, also at Prince Ar-

thur's Landing, Thunder Bay.

I touch on these points to indicate the possibility of constructing the whole of this section—from Nipissing to Manitoba, not only "after forty years," or "if ever," as shouted, on hustings, our present Ministers of State, and as averred their metropolitan organ, "the Ottawa Times, in their first flush of victory" .- but within forty months-I would say. The Americans, when in lowest exhaustion from their late war, built their Pacific Railway-longer and more difficult, in three years, if I mistake not. Wiy, in the name of common manhood, I would ask, should not we, with the British Exchequer replace at our back, not do likewise? But, on this head, more anon.

You have, Mr. Editor, given a general statement of the different lines (three) of " over a distance of 110 miles, thus indiroute, in this section—section from Lake | " cating an average rate of ascent much Nipissing to Lake Manitoba-reported by Mr. Fleming. I take up No. 2, the "alluded to." shortest and best, according to his own account. He thus defines it, in page 30

of his report:

"Commencing at the south-easterly "angle of Lake Nipissing, the whole dis-"tance to Lake Ellen (at head of Nepigon "Bay) on Nepigon River, is about 550 "miles. The line at Lake Nipissing is "730 feet, and at Lake Ellen 604, above "sea level. Between these two extreme "points, the route passes over two "main summits, one about 110 miles "northwesterly from Lake Nipissing "at sn elevation of 1420 feet above the "sea, and the other about 70 miles east-"erly from the River Nepigon, elevated "1400 feet above the sea. Between these "two summits, for a distance of "over 370 miles, there is a long flat "basin, characterized by no "inequalities. The line for this long "and a descent of 976 in about 116 distance will be generally very "miles." "distance will be generally very "level, the ground averaging from 1000 "The Grand Trunk Railway," he adds,

" point only, River Anglish, does it dip to 830 feet.

"The route, for nearly the whole distance east of Nepigon, runs behind the rugged and elevated belt of country "which presents formidable obstacles on "the immediate shores of Lake Superior. "This rough district is crossed directly "back of Ellen, where it is narrow and "probably least forbidding. In conse-"line north-easterly from Nepigon River "will show heavy work, while the re-"mainder of the distance to lake ripis-"sing, about 530 miles, will, it is be-"lieved, be comparatively light." \*

"In ascending Westerly from Lake Ni-" pissing, the rise to the highest point is "less, and the length of time occupied "in making the ascent considerably greater than in passing from Lake On-"tario to Lake Huren by railways in " operation across the peninsula of West-

" ern Ontario.

"The Great Western ascends 753 feet in 44 miles.

The Grand Trunk ascends 967 feet in 38 miles.

The Grey and Bruce ascends 1,398 feet in 52 miles.

"The Northern ascends 748 feet in 27

"The total rise on the Pacific line northwesterly from Lake Nipissing to the highest summit east of Lake Superior is 690 feet, and the ascent is spread " more favorable than on the Railways

Mr. Fleming, in a foot note, states at what particular stations and points the summits occur in the above, and also in other railways in Ontario, giving heights and distances, and showing them all to be less favorable than route No. 2 in ques-

"Between the crossing of Fed River," continues the report, page 32, "and "Lake Ellen, on Nepigon River, the dis-" tance is about 416 miles. The diagram "shows that the former point is 763 "feet above the level of the sea, while the latter is 604 feet; the height " of land to be crossed is 1,580 feet above "the same level, and about 300 miles " easterly from Red River.

" In passing through to Lake Superior "from the west, a rise of 817 feet has great "therefore to be overcome in 300 miles.

by way of comparison, "between Mon-So reports Mr.

" to secure maximum easterly ascending "gradients, between Manitoba and Lake "Superior, within the limit of 26 feet to "the mile, a maximum not half so grea "as that which obtains," he declares, "on the majority of the railways of the

" continent."

The route is certainly unexceptionably good, especially in view of the fact, as shown by the report, as the result of careful meteorological observations registered and returned over the whole route

it touches navigation where best it should, above the sea. viz., at Nepigon Bay, nearest good portaccessible by rail eastwards, from the Lower Fort Garry, called "Stone Fort," navigation, and at Manitoba Lake, does the same service to the chain of large lakes it belongs to—an internal navigabeneficial development.

So much, for the present, as to this "Woodland Section" of 1038 miles, as Mr. Fleming designates and reports it. Yours,

M. McLEOD.

Aylmer, Q., June, 1874.

## LATTER III.

#### RED RIVER TO YELLOW HEAD PASS.

"Pass is not difficult, and the Pass it-Europe and mid-Asia.
"self is, as it were, an open meadow." To these two main objective points

Fleming, in his "treal and Portland, running easterly 39, when speaking of his forty from Montreal, makes an ascent of miles a day ride through it in 1872. "1,360 feet in 144 miles, and a correst From the summit of the Pass to a point "The information obtained suggests," careful survey, and is reported in pages lie concludes, "that it will be possible 143-4. "From the summit the line follows." "49 miles eastwards" there has been very " lows the Miette River down the Caledo-"nian Valley to its junction with the "Athabasca, a distance of 18 miles, with a total fall of 352 feet. In the first "nine miles and a quarter the fall is only " 141 feet, with light work; in the next "two miles the fall is 120 feet, but by a "slight deviation of the line a grade of 1 per 100 (52.80 feet per mile) can be "obtained without heavy works. The "rest of the distance to the Athabasca is "by easy descending grades, nowhere exduring two winters, that "the depth of "ceeding 30 feet per mlle, and the works "snow is"—as Mr. Fleming, in page 34-1 "will not be heavy." The rest of the route of his report, says-" generally less on an to Edmonton was also surveyed, and is "average than it is at the city of Ot- represented—see pages 186-7—as, on the "tawa." whole, even more favorable. The sum-An excellent feature in the line is that mit of the Pass is given at 3,746 feet

From it to nearest seaport-Montreal -a practicable, and, in every respect, Prairie or wheat region—and also, that at a most favourable route, almost in air the point of crossing Red River, viz., at line, has been found, with an average gradient low beyond compare, so far as I it touches the head of Lake Winnipeg know, and at no point, in eastward course, exceeding—says Mr. Fleming, as before stated—"26 feet to the mile." I say, "almost in air line," but it is to be tion requiring but little for practical and remarked, that if Sault Ste. Marie be touched, the divergence—and that transversely and diagonally over very rough and rocky ground—will be fully one hundred and fifty miles off the true line. If this American connection be determined on, it would be better to have an independent line, I would say, along the comparative flat immediately back of the duron shore rim, striking into the Nipissing basin, and there touching rail way centre, at the main terminus. Between such line and the one surveyed by Mr. Fleming, along the valley of the Montreal River, there is a continuous uprise-for it scarcely can be called hill-Sin,—This section embraces what Mr. with irregular broken ridges of rock run-Fleming very appropriately calls "The ning, in the main, across the line of Central or Prairie Region"—not that it such explorations—and they ought to rule in The distance assigned, on mere exploratory this matter—such an elongation of line, survey, however, is "1,040 miles," viz., say over two hundred miles, would mater-750 from Red River to Edmonton, and ially affect, prejudicially, the commercial the balance thence to the Pass. The character of the route, as the shortest, of the balance thence to the Pass. The character of the route, as the shortest, of average grade from "Fort Garry to Edrailway, from Ocean to Ocean, between monton" is "2-3 feet per mile." "The the "Great Sailing Arcs," in Northern "immediate ascent to the Yellow Head Atlantic and Pacific, and between mid-

must all this work of pass-way for traffic "Fivers, and, by our surveys, is 2,866 and travel between the two "worlds"—" feet above sea level."

Reat and West—be bent. The Yellow From this hinging po Head Pass in 52° 50', or about that, of proved itself too southerly. The true north latitude, is precisely in line, it may line is westwards, due west, or nearly so, be said. The nearest natural ocean port, to the head waters of Lake Quesnel, discopen to us, thence westwards, is Bella tant, as I estimated, and stated to Mr. Cools, at the head of the North Bentinck Fleming, probably about 50 or 60 miles Arm. Its latitude, as determined by Vancouver, Sir Alexander McKentley, and Lieutenant Palmer, R. E., is to which, I saw by a draft of my father's shout 50 2 21. That of Liverpool as stated about 52 21'. That of Liverpool as stated special report on the subject to the Govin Norie's navigation tables (a standard ernor and Directory Committee of the authority) is 52°24'. Lower Fort Garry Hudson's Bay Company in London, dated (Red River crossing) is in about 50°23'. "Kamloops, Spring, 1823," when in charge This last is, for Pacific Railway route in of what was then known as the Thomp-Canada, a defined objective point by na-son's River District, extending from the ture. The same may be said as to the Yel-Rocky Mountains to the Pacific, and from low Head Pass. From its summit to tide the Columbia northwards, in fact, all what is water, N. Bentinck Arm, the distance I now British Columbia and part of Oregon, assigned in my Britannicus letters was, that he thought a trade track inrough for ratheay route, with its unavoidable it could be found, and he proposed, curvature, "400 miles." My map to to that end, to send two or three men, "Peace River," indicates it.

YELLOW HEAD PASS TO PACIFIC OCEAN.

The description of the route from the summit westwards is thus given, in page 144:—"From the summit of the Yellow "Head Pass the line follows down the "valley nearly due west to the head of "Moose Lake 184 miles, in which the fall " is 344 feet; on the first 2½ miles the " fall is about 45 feet per mile to Yellow lake, thence along "shore of the same 31 miles level, "leaving the average fall for the rest "of the distance 20 feet per mile. "The line follows the north shore of " Moose Lake 8 miles to its outlet at the "west end; on this there are easy undu-"lating grades. The works from the "summit to this point, 27 miles, will not "be heavy. From the outlet of Moose "Lake there is very little fall for a mile "and a half, but thence to Tête Jaune "Cache, 18 miles, the Fraser falls 924 " feet, giving an average of over 51 feet "per mile. At Tête Jaune Cache the "line leaves the valley of the Fraser and "turning almost at right angles follows "up a valley on a south-easterly course " to Cranberry Lake. The distance from "Moose Lake to this is about 32 miles, "Moose Lake to this is 26 feet per strange to say, has done trip by the Disand the average descent is 26 feet per just recently, by a flying trip by the Dismile." • • "From Cranberry trict Engineer. Of this, more anon, in "Lake to the crossing of Canoe River, 31/2 miles, is practically level, as the surface " of the river is only 20 feet below that of "the lake; thence to Albreda lake, 10 "miles, there is a rise of 264 feet. This " is on the watershed between the tribu-"taries of the Thompson and Columbia Aylmer, Q., June, 1874.

From this hinging point all survey has along with certain Indians, occasionally frequenting Kamloops, called the "Snare Indians," a small mountain tribe of about "60 families," frequenting both sides of the mountains. They failed to return for a year or two, and the matter was left as it had ever been-even to the North West Company's repeated efforts in that wava something sought, but unfound. Milton and Cheadle, with true British pluck, half did the feat.

Mr. Fleming, when charged with the Pacific Railway, put, at the earliest possible moment—as appears by his Progress Report of 1872—two specially strong "divisions" of his staff, viz, McLennan's and Mahood's, to the task. The former worked his way up from Kamloops, by the North Thompson, to Albreda Lake. The effort—a really splendid one—cost him 87 out of the 100 of his picked mountain train (largely Mexican) of horses and mules. Mahood had been instructed to begin at the mouth of the Quesnel River and work up thence to the source. He disobeyed orders, arrived at the river, and not finding, as he says, "boats suitable," he allowed himself to be drawn to the glacier heights of Cariboo, where, of course, and as his master knew, and might have told him, there was no pass for railway. Since then this Quesnel route, strange to say, has been untouched, save my next.

Yours truly.

M. MoLEOD.

#### LETTER IV.

# QUESNEL LAKE ROUTE.

Sir,—Resuming this subject where I left it in my last letter, I propose to give, from the report itself, sufficient to indi- "of this day's journey the shore line of cate the correctness of what I have advanced on this point. Referring to page 129, under the head "Journey to Quesnelle Lake," we have the following from Mr. Marcus Smith, District Engineer:— "Friday, 11th October, I received," (he is addressing Mr. Fleming, then, in 1872, on his trip from ocean to ocean) " your last instructions this morning.' "On the 16th I arrived at the Blue "Tent, or 127 mile house." "Next "day I resched the 150 mile house," \* \* "Monday, 21st October—I started with three white men, two Indians, and a " train of seven animals; on the second "day's journey the trail crossed a large " farm in Beaver Lake Valley, near which "we camped. This valley, as far as I "could see each way from the adjoining "heights, looked remarkably favorable for a line of railway; and as I have already stated, there is but a short neck "of land between the head of it and "been on our left (north) of the lake, and "Horse Fly Valley. Next day we ar-"rived at the forks of the Quesnelle "river; here there is a thriving village." between the Thompson and Clearwater, 24th October—We started with "and which continued from the Gold "our pack train on a very rough trail up "range west of the Columbia river. "the right bank of the South branch of "There were no very high mountains"
"Quesnelle river, and at the end of 9
"miles came to still water, where the boats were lying."
"A "Sentone of the Indians back with the pack animals goes on to say goes on to say the continuous of the contin " to Beaver Lake, to pasture till our re-" turn."

Proceeding in two boats, a large and

small one, he reports:—
"25th October, 2:30 p.m.—Reached" Nim's Point, 22 miles from the foot of "the lake. The line of the south shore " of the lake for the first eight miles is " tolerably uniform, and the slopes from "rocky and broken to where the six " mile creek enters the lake. From this "to Mitchell's Landing (south) is a flat beach covered with cottonwood." \* "26th October.— \* The south shore "of the lake, from where we struck it "this morning, is an easy wavy line, and Lake as already reported. "the slopes not very steep. All the "The Clearwater River," continues Mr. hills that bound the lake on the south Smith in page 132 of report, "rises in a " shore are covered with timber from the "water's edge to the summit; those on the north are higher, with bald rock."
"27th October.— Arrived at Slate " 27th October .- "

"Island (58 miles,) where the axis of "the Cariboo slate (gold-bearing) range crosses the lake. In three hours "arrived at Limestone Camp (No. 7)—72
"miles—where the lake bends due
"north (magnetic.) The first 16 miles "the lake runs in easy curves, and " though the mountain slopes come down "to the water's edge, their inclination is not great. Of the other fourteen miles, " six are bold and rocky, but with heavy "work, practicable ior railway construc-tion; the rest is easy."

"Monday, 28th October - We were "within seven miles of the entrance to the second narrows" (79 miles from foot of lake). . "Here I had a fine view of the "Narrows (N. 45° E. magnetic) twenty " miles to the wet bend of the lake where "it runs due forth ex or seven miles to "its head" This narrow part of "the lake is hemand in by bold recky "mountain, the coff along the shores "rising and feet to the feet in height, in " some places over-hanging. My impres-" sion is that the lake here passes through " the Caribso range, for directly westward were the snow-capped peaks that had "a little to the south of east were the "peaks, apparently of the same range

"Mr. Barker," the gentleman of the "flourishing village" aforesaid, who furnished the boats, and guided Mr. Smith-"confirms this-he says that the "Niagara River (head tributary and source of the Quesnel) enters the northeast side of the lake three or four miles " from its head, that the falls of this river "are about 200 feet high, and for four miles up from this the river is very "the water not very steep; then there "miles up from this the river is very are about four miles in which it is "rapid, then there is dead water for about " forty miles, in a wide, swampy basin, "where the Indians hunt beaver, &c.

"From repeated readings of the ane-"roid, I estimated Quesnel Lake to be "about 2,580 feet above sea-level." N.B. Three hundred feet tower than Albreda

"range of mountains to the north-east of "Quesnelle Lake, which can be reached "by a pass (the entrance to which I saw)" Arrived at blate -he says himself-"said to be easy and not

"very high. There is then only the short lean—increased upwards to nearly 3,000 "space between Clearwater Lako and the feet above the sea. Clearwater River, as "north or Cariboo fork of the Thompson any good map—say Trutch's—will show, "river, about which I can get no informalis only a fork of this North Branch of the "tion more than that there certainly is a Thompson River, which fork (Clearwater) " pass. I have only met one Indian who at its head—a long lake—has a tributary "when he was too young to retain an "clear recollection of it. This is undoubt-edly part of the Selkirk range, and I "would shorten the line so much that it is

"well worth consideration."

Precisely! But why, I would ask Mr. Smith, did he not see to this before, instead of starting, as his report shows, "97 miles down the North Thompson." about 90 miles off-too far south-for even the line proper for Bute Inlet, and at a point over two thousand feet unnecessarily too low on this meridian? Section sheets 4 and 5 show glaringly the faults of this line, starting from a point on the North Thompson, 1397 feet above the sea, and between that and the Fraser having to climb heights stated at 3,500 feet, and 3,104 feet above all which the south shore, as described, avoids. Sir,—Returning to our starting point As to that "tunnel of considerable in consideration of this Queenel lake length," in Mr. Smith's "mind's eye," it section of the route, viz., the "large would certainly be interesting to know all, or semething about it, in an engineering point of view. If I may be allowed—as one to the manor born—to cfler an opinion on that point, I would be inclined to say, that the pass there—a point shere three ranges meet, and, by law of nature, break into fragments, flanking curve, with moderate gradation—if I may so use such word—would overcome all mountain difficulty. Billowy, rather, and not mural, are all our mountains thereabouts. That "tunnel," in fact-good Mr. Smith should not, I humbly think, be so positively asserted by you! This scheme for Canadian Pacific Railway has "lions enough in the way," in all conscience, without such a one from one employed to remove such . 1g-bears.

In speakin of the difficulty that the fur trade met with in its attempts to penetrate this upper region, with its fine bea-ver flats of "forty miles" in extent, it runs thus: "The line follows the north was not-I would observe-the height or steepness of the mountains that blocked the way, but the character of the mountain forest—its immense growth, with an underbrush and heavy obstructive swamp flora, which, commencing at a point about 45 miles up the North Thompson—I remember well the beauteous stream, in its "grades of 1 to 1.60 per 100 have to be placid lower reaches meandering, Pacto-" used, but with no heavy work. The

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"had travelled over it some years ago, from the east, rising close, apparently less "when he was too young to retain an than a mile, from the main fork, a point easily accessible, by stream course, from Albreda Lake. There is no room for "have no expectation that a railway tunnellable heights between these waters "could be got through it without a tun--waters in common-of the "beaver in el of considerable length, but this route flats" aforesaid. The "peaks." about, "would sharten the line so much that it is wooded to top or snow-capped, but adory the scene—and to the Road, when made, will but give, in their altitude above road bed, snow-shed in winter and sun-shade in summer.

Yours,

M. McLEOD.

Aylmer, Q., June, 1874.

## LETTER V.

QUESNEL LAKE TO BELLA COOLA.

section of the route, viz., the "large farm" in Beaver Lake Valley, and proceeding westwards we have the following description of the route, in page 123 of the report: "Journey from the 150 mile" (mile, on waggon road alo. g Fraser River bank) "House to the North Branch of "the North Thompson River." "Friday, "6th September—At 9 a. m. started on this journey." "We followed the " well haten trail to the forks of the Ques-"nette, about eight miles, then took "an Indian trail running in a more "easterly direction. On the second day " we entered Beaver Lake valley." Beaver Lake is given at "2,110 feet above the "sea." We are now on the right bank of the Fraser, at or near Soda Creek. No survey for crossing at this particular point is reported, but is so at a point a little way
about 10 or 12 miles further down—at the Jose Valley. The report, in page "shore of William's Lake, 5 miles in " length, with undulating grades, and not "heavy work, thence down the Jose Val-"ley to the Fraser River, a little over "seven miles. Approaching the Fraser, "the valley becomes deep and narrow,

"line crosses the Fraser at an angle of "the water courses and lakes being dis-"line crosses the Fraser at an angle of about 45 degrees, requiring bridging "tinguishable by belts of groves of "800 feet" (Oncy right hundred feet—not a "a mile at least," as Captain Butler pretends, and that, according to him, at a "ve could trace far away to the north tends, and that, according to him, at a height of "1,200 feet") "long, and 30" (only thirty) " feet above the river level, " or 1,374 feet above the sea level: it then "follows the right or west bank of the "river for 17 miles, in which it has to "cross the face of some heavy clay slides "and high slate rock bluffs, with some "grades of 1.20 per 100; in this section "there will be some very heavy works, "including two tunnels through lime-"97 miles" divergence down the N. "stone rock, one of 1,500 feet, and the Thompson, and thence over the two inter-"other 2,000 feet in length."

As to this matter of crossing, it is to be observed that it would be much easier further up the Fraser, but on this point

the report is silent.

I am now following this too southerly above sea, represent it as a fine rollgiven forth, for years past, in press, of Upper British Columbia.

"Valley two or three miles, the . we made so by controversy—should it arise. "a long detour to the north to head out "a deep ravine; passing this, we "ascended the high level of the rolling

"till lost in the undulations of tho " plateau. In the bottom of this, "right in our course, lay a cultivated farm, to which we descended—1,400 "feet—by very steep slopes, and there met the owner, L. W. Riskie, Esq., a

"Polish gentleman, by whom we were hospitably entertained, &c."
From the Yellow Head Pass, via the "97 miles" divergence down the N. mediate summits aforesaid, to the Fraser via Jose Valley and thence "17 miles further down," and thence to this apex in the Chilcotin Plain of 3,700 feet above sea, the distance is given in section sheet 5, at "334 miles." In section sheet 7, line merely for the nonce, as no other is the precise point stated at 3,700 feet in given, and at a certain point, viz., apex in section sheet 5 is not given, but a point the "Chilcotin Plain," marked "3,700 marked "Old Fort" (Chilcotin), at a feet above sea level," in section sheet 5, height stated at "3,800 feet above sea, is assume it, but merely for determination given—and, as the nearest possible, it of distances and comparative reference as may, for calculation of relative distances, to character of route, for indication of be approximatively assumed as the same. my line to Bella Coola. The middle From this point to the mouth of Bella reaches of the Chilcotin Valley might, Coola River, the distance assigned, however, be used in common for the Bute on Lieutenant Palmer's measuremen's, Inlet and N. Beatinck Arm routes. All or estimates, is 170 miles of crooked descriptions of the country traversed, trail track. This, with the 334 miles eyen at such altitude, about 3,500 feet makes an aggregate of 504 miles. From makes an aggregate of 504 miles. From this, deduct for the "97 miles" divering plateau, with forest, meadow and gence at the N. Thompson, say, at least prairie, and do that with beautiful and 140 miles, and for the Fraser Crossing, at gence at the N. Thompson, say, at least fish-teeming lakes, the whole admirably least 24 miles, and we have, as closely as fitted for agricultural settlement. The may be "400 miles" as the probable description in pages 120 and 121 of the length of railway route from the summit report so represent it, and so I have of the Yellow Head Pass to tide-water Bella Coola, via the south shore of Lake newspapers and books, but unfortunately Quesnel, as marked by my railway line in there have been no members of Parliagreen, in my map to "Peace River," ment of these parts to take up the cause and as advanced in my Britannicus Letters Upper British Columbia. of 1869. I neve, of course, actually In page 121 of the report, speaking of measured the route, but I had, accidenbetter ground found considerably north tally, data to go on, which, then—I bewards of that surveyed, in the first in-lie 3—no one else had, at least, not to stance, the description in the report is the serr coxtent. I might say much on as follows:—" We followed up the Fraser this score, but will not unless forced to do

> THE BELLA COOLA ROUTE, GORGE AND SEA-PORT.

"plateau, and saw spread out before us, as far as the eye could reach, an undulating grassy plain, dotted with trees, valleys, each with its appropriate river, or

<sup>&</sup>quot;The calculation in detail, runs thus: Half of total divergence, on triangulation on base line from east end of Quesnei Lake to meridian of "Old Fort Chilcotin" 72 miles. "Reduction as per Lieut. Palmer's estimate, on trail track (tortuous) for "road" route etween "Old Fort" and "The Precipice," say 25 per cent. on 97 miles—say 25 miles. Reduction, for road, on trail, from "Precipice" to tide water, say 5 per cent. on 73 miles—say 5 our miles. Total reductions for road to Bella Cools, 101 miles—deducted from 503 miles, leaves precisely 402 miles. From which, for the Anter are of my more northern line, a small deduction is to be made—bringing a result within my original predicate.

streamlet, is, I am convinced, "not half "of Bella Coola will yet be the terminus well enough known." The charter pros"of the much talked of Pacific Read pectus (printed and sent to me) for a "through British Territory." waggon road through it, in 1862—thus describes the proposed port, and route "authority," or as ground for aught than thence to Cariboo:—"The North Brn. further enquiry towards authentic deter-"tinck Arm possesses an excellent har-mination of the questions of fact in-"bour, of sufficient capacity to accommo-volved. "date the largest fleets at all seasons of

"struction, and is studded in every directors. This in my next. "tion with open prairies, lakes and ex-"tensive meadows, affording abundant

" feed for pack animals.

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"The town site of Bella Coola is admir-"ably adapted for the formation of a "commercial depot for the northern por-"tion of British Columbia, being access-ible by steamer from Victoria in forty "hours at all seasons of the year. The "road would be about 200 miles long, "that is to say, from the head of the "inlet to the point required on Fraser River—say Alexandria. With the ex-"ception of a part of the descent through "the mountains, some 25 miles in length, the Coast Range the trail is decidedly of "and from 13 to 24 miles in breadth, may "a level character. slide, is really " rather " obstruction, and could easily be over-"obstruction, and could easily be over-come or avoided—a fact that must be-ters of the Bella Coola or Nockhalk "come evident to every one when in-"formed that we passed and returned " packed horses over it during our trip last " "summer" (1861). "From the place where " "the trail first strikes the Bella Coola "portion of that range and, subsequently. "River in the Coast Range (that is at the " foot of the slide, travelling from the in-"terior to the coast) it runs along its "bank the whole way to the head of "the Nookhalk for 40 miles from its "the Inlet, through a deep gorge or pass " in the Mountains, which varies in width " from half a mile to five miles."

The report goes on to speak of its practicability, first for "mule trail, ten feet wide," then for waggon road; speaks also of its harbor as "favorably reported on by seafaring men"; of its admirable site for a town, facilities for wharves, docks, &c.; abundant timber; gold, copper, &c; and fisheries of "cod, halibut, salmon, " oulschans, herring, &c., and finally the worthy promoters—one of them (Mr. Kanald McDonald, son of Chief Factor Archibald McDonald), a gentleman born in the country, and thoroughly familiar with it, and the other, John C. Barnston, Esq., barrister, late of Montreal, son of "800 yards from shore terminates abrupt-Chief Factor Barnston, Hon. H. B. Co., and now, I believe, a member of the Local Legislature of British Columbia—
"soon to 70 fathoms." [Note by mythus wind up: "So that it appers to us "self. A little dredging will

In the meantime I purpose to examine the year.

"The country through which the road the subject, and which kir. Fleming's re-"will pass presents few difficulties of con-port—an oxhaustive effort—presents to

> Yours, M. McLEOD.

Ayimer, Q., June, 1874.

#### LETTER VI.

Sir,—Continuing under this head, I proceed to show what the report of Lieut. Palmer, R.E., of his survey in Autumn, 1862, as given in Mr. Fleming's report, says of it.

Page 219 of Report :- "North Bentinck Arm, a mere water-filled indentation in This descent, or "be taken as a fair type of the other in-really the only "lets on the coast." North Ben-"River, a rapid mountain stream, 80 " miles in length, which rising beyond the principal crest of the Cascade Mountains, flows through and drains a "the chasm or valley formed by the con-"tinuation of the mountain walls of North
"Bentinck Arm." "The valley of " mouth is undoubtedly of estuary formation, low, and, in many places, swampy throughout, and to the same "process by which, for ages past, the land has been gradually forcing back the waters of the ocean, viz., the deposit of wast quantities of alluvium and drift which have been brought down by the Nookhalk, is to be attributed the existence of the large, flat mud-shoal which extends across the head of the Arm. This shoal, composed of black, fetid mud, supports a rank vegetation of long swamp grass for about half its dis-"tance outwards; it is bare at low water "spring tides for about 700 yards from high water mark, and at a distance of "ly in a steep shelving bank on which thus wind up: "So that it appe rs to us "self. • A little dredging will "probable enough that the future town "easily improve this.] "Another small

"anchorage is said to exist at the mouth," there is nothing to prevent a good bridle

"To build wharves and perhaps a few " sheds on the rocky shores of the anchor-"age, and thence a road along the moun-"tain sides to the spot indicated in the "accompanying plan as suitable for a town site, is the only method I can ar-"rive at by which to meet the require-"ments of any future traffic that may cocur on this route. The site I have "selected is, in fact, the only available ground in the neighborhood, a sloping " tract of land of about 1,200 acres in ex-"tent, covered with a profuse wild vege-"tation of clover, vetches, or pea-vine, grass, and berry bushes of various de-"scriptions, timbered in many places and "generally dry, but breaking up towards the river and the head of the Arm in low "swamps and ponds, and damp, grassy " hillocks.

"On the north side of the river much " of the land is heavily timbered within " the line of high-water mark with cedar, "cotton wood and some species of fir,"

"Half a mile from the mouth, and on "opposite sides of the Nookhalk are "two Indian villages, &c. Two miles "further up is another viil ge, popula-"tion about 1,200 souls. The natives are "physically a fine race, tall, robust and "active." Navigation of Arm and "river is by canoes. Page 222.
"The Nookhalk Valley, which averages
"from one-half to one and a half miles in "width, opening out considerably," (probably to the extent of five miles as reported by McDonald and Barnston) "at the confluences of the principal tribu-" taries, is walled in Ly giant mountains of " from two thousand to six thousand feet "in height, presenting the usual variety "of scenery met with in mountain " travels in this country." \* Page 223. "The valley abounds with the na-"tural features usually met with at low "altitudes in this country; tracts of heavy forest and dense underbrush, " such as we see in the valley of the Low-"er Fraser, succeeded here and there by " groves of alder, willow and swamp woods, "occasional open patches of low berry bushes, forests of smaller timber with "a comparative absence of triangle and large alluvial flats, abrupt mountain way line be run diagonally across its face, way line be run diagonally across its face, and large quantities of fallen, "The height of the actual loose rock," "The height of the actual loose rock, "The height of the actual loose rock," "The height of th "and, occasionally, burnt timber.

"of the Noomamis River, reput 3 miles "path or waggon road being carried the down the north shore of the arm." whole way to Shtooiht. &c.. (57 miles)." whole way to Shtooiht, &c., (57 miles)."
Page 224—"Happily, in this valley "there is a comparative absence of rocky bluffs running sheer into the river."

"THE GREAT SLIDE" AND MINOR OKES.

"There is an unavoidable slide of fragmentary rock, half a mile in length, "at 27 miles from Ko-om-ko-ots, and rock in situ would be met with about two miles above Nootkleia, but neither "difficulty is likely to prove of a serious nature.

"Atnarko" (river with two tributaries,) "Valley is similar in many general cha-"racteristics to that of the Nookhalk; as "its stream is ascended so do the diffi-culties of progress increase. The valley, which near its mouth is about one mile "in width, gradually contracts, and the mountains, although divinishing sensi-"bly in apparent altitude, become more "and more rugged, and frequently jut "out in low, broken masses into the "stream."

"HERE THE FIRST SERIOUS OBSTACLES TO ROAD MAKING ARE MET WITH. From the crossing of the Cheddeakult" (one of said two tributaries) "to the foot of the Great Slide, mountains crewd closely in "upon both sides of the stream; fre-"quent extensive slides of fragmentary " trap rocks of all sizes run either directly into the river, or into the low swampy "lands bordering it, which are liable "to inundation at the freshets, and "the Indian trail which winds along their faces is difficult and almost dangerous for travel. These slides "vary from 300 to 600 feet in height, "and are capped by rugged cliffs extending to an average altitude of 1,500 feet "above the river, and since they are un-" avoidable, the labour of trail making be-tween Shtooiht and the Great Slide" (14 miles) will be considerable, and entail a probable expense of "£1,000" (only one thousand rounds)-" Distance from

"Bentinck Arm, 57 miles."
"At Cokelin, 1,110 feet above the level of the sea, the trail leaves the Atnarko running about south-east, and strikes to "the northward, directly up the face of "the Great Slide, at a high angle of ele " vation."

and, occasionally, burnt timber. \* "as indicated by barometric measure"Although the present trail passes "ment is about 1,120 feet, the trail "through a great deal of swampy land, "barely even winding up this portion,

bridle ed the iles)." valley rocky

f frag ength. d rock it two either serious

taries,) al chalk : as e diffivalley, ne mile nd the sensie more itly jut

CLES TO om the (one of t of the osely in m; frenentary directly wampy liable s, and along almost elides height,

extend-00 feet are unting be-le" (14 entail a (only ce from

he level tnarko rikes to face of of ele a rail-

> e rock. easuree trail ortion,

ts face.

but wriggling almost directly up the ocean to ocean. The same can scarcely "face in would be zigzags bitterly trying be said as to the Bute Ir "to pedestrians. Above this it is lost the N. Thompson and Fra "among cliffs and hollows dotted with and now given in report. "small timber, and rises more gradu-"now emerges on an elevated, rolling district, where the mountains, with whose summits we are nearly on a level, "seem of inconsiderable height and lose "much of their rugged appearance."—Altered vegetation.—"Down by a gradu"al descent of 500 feet to the brook "Hotharko, a tributary of the Atnarko, "and up its valley seven miles in an east-"north-easterly direction to its forks, "meeting with no serious obstructions "but falien timber and occasional small "rock slides. The space between the forks of the Hotharko, which run in "south-easterly and west-north-westerly "directions, is occupied by a peculiar "mountain mass of basaltic rock, 1,350 "feet in height, which has received the " name

THE PRECIPIOL.

"The ascent of this mountain is ex-"cessively steep, the trail at first running up the back bone of a singular spur, "further up winding among crumbling fragments of rock, and finally, reaching "by a dizzy path the summit of the per"pendicular wall of rock, 100" (only one hundred) "feet high, which crowns the "mass, and from which it derives its

[Here I would respectfully observetunnel-it seems to me-say about a mile in length, from the eastern slope (slope shown in section sheet 7) of this "precipice" to the base of its "100 feet perpendicular," would bring the line to the head of a system of natural sides and "heavily timbered slopes," which, though steep for ordinary railway gra-dients, certainly present no feature insurmountable to railway construction and working, as proved, abundantly, under such like conditions, and worse, with higher heights, and steeper gradients, as on the Nevada of California; on the Andes of South America (with average gradients of 500 feet to the mile) for 30 miles together, on Pacific slope; on the Ghauts of India; and on the Alpine heights of Switzerland and other mountain lands, all-save British Columbia-

be said as to the Bute Inlet line between the N. Thompson and Fraser, as surveyed.

In Sir Alexander McKenzie's account "ally until, five miles from Cokelin, an of this interesting spot, in this Adam attitude of 1,780 feet (2,890 feet above the sea) is now attained. The trail have the following as given in pages 233have the following as given in pages 233-234 of Mr. Fleming's report. Approaching from the east, he says: "We con-"tinued our route with considerable de-"gree of expedition, and as we proceed-"ed, the mountains appeared to with-"draw from us. The country between "them soon opened to our view, which "apparently added to their awful ele-"vation. We continued to descend "till we came to the brink of "a precipice. The precipice, or rather " a succession of precipices, is covered with " large timber, which consists of the pine, "the spruce, the hemlock, the birch and "other trees. In about two hours we ar-"rived at the bottom, where there is a " cenflux of two rivers that issue from the " mountains."

Reverting to Mr. Palmer's report, we see it stated by him that the distance from Cokelin to the Precipice is "16" miles," and that the "top of the Preci-"pice is 3,840 feet above the level of the "sea." "Arriving here," he continues, the traveller enters on the level of the great elevated plateau which intervenes "between the Cascade Mountains and "the Fraser. Looking eastward the plateau presents but few objects to attract "attention, and the eye grows weary in "wandering over a vast expanse of wav-ing forest, unbroken save by the lakes "and marshes, which are invisible from the general level." "The summit ridge is crossed at a distance of about "fifty-five miles from the Precipice, and "a height of 4,360 feet above the sea. The "extreme elevations of the rolling pla-"teau are very inconsiderable, seldcm "more than 800 feet above the general "level. Distance from Slide to Alexan-"der" (Alexandria on Fraser River) "180 " miles."

Yours, M. McLEOD.

Aylmer, Q., June, 1874.

LETTER VII.

LEATHER PASS.

TO THE EDITOR OF THE GAZETTE. thoroughly or partially railwayed.

At this 'Precipice' alone, with its was so by the Fur Trade—in a general way to the whole passage from the Northbe required, in the whole route from ern Bend of the Fraser, eastwards to Jasper House. The term "Tête Jaune" was thence to "Bentinck North Arm (Pacific applied rather to the "Cache," and was Tide Water)," according to the same so called from the color of the hair—not sheet is "215 miles," which, however, unfrequent amongst French-Canadians of being tortuous Indian trail, to avoid Breton and Northern France origin—of lakes and swamps, would, for road route, an enterprising French trapper, of the as Lieut. Palmer explains, be reducible, name of Decogne, who used the singular-ly appropriate locality—an immense hol-cent, save as to that part, "73 miles," low, but comparatively level, of some 70 from the head of the Arm to the top of square railes in area, amongst the mountains there—for his "Cache" or entrepôt in ing has taken Mr. Palmer's trail distances his line of work.

#### CACHE TO NORTH FRASER BEND.

The Pass was, in my time in those parts, and for some years after, a highway not only for leads—leather principally but for the sick and even paralytic seeking medical aid in Canada, from all parts of British Columbia, even from the Babine country. I, however, never passed through it, nor approached it nearer than Old Henry House (Miette), 18 miles from the summit.

From the summit of the Pass to the Cache, the latest re-survey has determined most favourably, as shown by report already eited, the question of railway line. The distance of the Cache from the summit is given at "50 miles;" its height, "2,500 feet above sea level." From the Cache the trend of the Fraser is in a general course N.W., until at a point for which "Giscome's Portage" may be assumed, it bends sharply, and strikes due south. This turning point may be laid at 54° 25' Cache to Giscome Portage:—
N. latitude. The Fraser at the Cache may
Summett V. H. Pess to Cache (may be laid at 52° 55.' The trending is therefore, it may be said, 100 miles due north, and all that off the true line to N. Bentinck Arm Port. The distance from the Cache to this bend has never, so far as I am aware, been measured. In section sheet 6, under head "Fraser River," there is a point marked "248" (t.e., miles from summit of Y. H. Pass), with a line of "altitude," marked "1,900" (feet above see level), but there is no name or desiged by me, in my pamphlet "Peace River," page 113, under head "Tete Jaune Cache." The gradient, from 2,500 to 1,900 feet, in the distance (assumed in sheet) viz., 198 River Bend Route. The latter route,

as given in report. As to the rest of this line, viz., from crossing of West Road River to Bend of Fraser, and thence to the Cache, no measurement of distance or height has, so far as I am aware, ever been made by any one. For lack of better, I take the figures given in section sheets 6 and 7. They stand thus :-

	lies.
From Yellow Head Pars (Summit) to	
Cache	60
From Cache to Giscome Portage From Giscome Portage to crossing of West	198
Road River From crossing of W. Road R. to Tide Water	95
N. Bentinck Arm	215

Totai..... 558

Reducible, probably, to 500 for railway route—the whole way, and especially from a point about 45 miles S.W. of Giscome Portage to the Precipice, admitting, I believe, almost an air line say 175 miles—making my calculations thus, including also a reduction on the "198 miles" given for the distance from the

	Miles.
Summit Y. H. Pass to Cache (measured).	. 10
Cache to Giscome Portage (not measured)	175
Giscome Portage to Precipice " .	220
Precipice to Tide, N. Bentinck Arm (mea	-
sure.i)	

LUtalininini	
Nipissing to Yellow Head Pass ( ing's estimate and measur	Mr Fiem-
Tart)	2013
Metal.	4001

I take the liberty of giving these figures, in case it should prove, on survey—if such survey ever be made—that nation given to the point. I assume it vey—if such survey ever be made—that to be the extreme northern point of the the Quesnel Lake line, as I have inbend, as in distance and height (river dicated, is too unfavorable for a doption. level, it agrees with or very closely approximates the distance and height assign considerably shorter than I have ad-I really think, now, it would be found considerably shorter than I have advanced. At the same time, in point of gradients, it will assuredly be less favorable than the Northern Fraser miles (river course, navigable to canoes, and Mr. Fleming, as he says in his without falls) would average scarcely two report, has ever looked to as an alfeet and a half per mile. From "Giscome ternative certainty for access to the Chil-Portage," which, by the way, was never cotin Plateau, even for route to "Bute Ina trade-route, to a point in section sheet let." North Bentinck Arm, I would ob-7, marked "Cross Black or West Road serve, is fully a hundred miles or more River," the distance, in sheet, is 95 miles; north of Bute Inlet, and is certainly twothirds of that distance (say about 70 miles) the time as its local chief ruler-I rebility for such a terminus as our highest of form I ought, perhaps, to ask his and ultimate behests require, however leave, but in the present emergency well it may serve the special local—but th re is no time for it. well it may serve the special local—but purely local—interests to which all effert in this great matter seems, most strangely-most unfortunately, so far-to have been bent. On this point, I can only repeat what I have said in my "Peace River" pamphlet, page 103:—" Surely, it is not." I ask, in protest against non-exploration of all British Columbia, "that the "men of the south of British Columbia "who hold present rule," (April, 1872)
"are affaid to open to public view the
"grand middle and north of the magnifi-" cent country in their trust?"

Exploration, not only of British Columbia, but of our whole vast North and North-West regions yet untouched by authentic record, and of which the very people of Canada, called on to give so largely of their financial resources for development, know less than they do of in his trip from ocean to ocean)—and," the centre of Africa. It struck me also he adds, "of many other friends and supdevelopment, know less than they do of that such exploration should precede the instrumental work of survey for railway. Hence my Britannicus letters of 1869, inviting it. On the strength of them, as avowed by the Finance Minister (Hon. Sir John Rose) in moving the item, when asked " 'Isle à ca Crosse' that I had the pleacui bono? by the Hon Mr Holton, "£300,-000 sterling"-besides the like sum for payment to the Hudson's Bay Company for their surrender of charter rights-was unanimously voted-voted specifically for exploration-eo nomine.

In 1872, early during session in April, seeing nothing done in that way-for the garnered papers, maps, &c., and other Douglas.

special information as to the regions in question. From Sir James Douglas—the ledgment and approval, in most cases, in highest authority as to the geography of marked terms—of my pamphlet, the fol-British Columbia—for he has spent lowing authorities:— nearly half a century there, and most of The Colonial authorities [Secretary of

nearer the N. F. Bend, and, I humbly ceived, in recognition of my pamphlet think, is equally accessible by rail; we and letters, a note, in warmest terms, of have, at least, no evidence to the contrary. date 3rd April, 1873, from which, as being In any case, "Bute Inlet," as I shall here essentially of public moment and not after show, is out of the question—is a "private," in its strict sense, I proceed political anomaly and physical impossito give the following extracts. As a matter bility for such a terminus as our highest of form I ought, perhaps, to ask his

[Extract.]

"Dear Mr. McLeod,—I have had the pleasure, &c." "Your notes and tables of distances [given in "much detail in pamphlet] must have been," he says, "of immense service "to Mr. Fleming in preparing his last annual report, which, before I received "your letter showing how he acquired
his information, greatly surprised me
by its fulness of detail and ovident
familiarity with the leading physical
features of the country, as well as the
breadth and vigor with which it grapinterest of the country is the state of the country. pled and dealt with the whole subject of the overland route.

"I must certainly add my testimony to "that of Mr. Fleming"—(Mr. Fleming had spent some nours with him, in 1872 porters of the grand Canadian enterprise, as to the extreme importance of your "literary contributions in promoting the cook." \* "I retain a lively recol-"lection of your worthy father. It was at "sure of seeing him, about the year 1821" or '22." "We never met on the "west side of the mountains, as he left "before I came to the Columbia Depart-"ment." He then goes on to inform me. in correction of my statement in the I was in the Heuse at the time, and of pamphlet, that it was he saved my father's course, with much interest, noted what life from Indians at the Dalles of the occurred and was said. celebrated botanist, Douglas.

Of course, I do not pretend that it was railway survey staff, with its incidental from me alone that Mr. Fleming got all cumber and procrustrean measure of such information as could be got only work, could not do such flying duty—I from us old Hudson's Bay and Northwrote my pamphlet, headed "Peace west people, who, in those stirring old River," touching, in exposition to further times in the far North, travelled much invite exploration, the whole field from more than they do now, but, up to the Hudson's Bay to Pacific, and from our time of starting his survey, I do not know Arctic coast to the Columbia River. I did from whom else, especially as to the inso, as before said, from personal knowledge and my father's and other well-got it, save from Governor Sir James

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Hudson's Bay Company, by its Governor and Board of Directory in London—a body not given to such "small-moving," and whose act has, to me, a special value, in that it excuses my apparent violation of much of their traditional esoteric,— The Surveyor General of Dominion Lands [Colonel Dennis]-Mr. Crosby--statistician, and compiler [with much merit] of Lovell's Gazetteer of British North America [a standard work, and in which, under the heads "British Columbia," and "North West Territories," my statements, tabulated, and in descriptive order, as to the economic areas, relatively, of "wheat," and other economic resources, and general geodesy of the whole vast terrain in question, are given, in my own words, with due credit, by name, to me, and that with the long list of corroborative authorities consulted on the subject by the compiler.] I might add to the list, the Hon. Mr. Langevin and others. But coming back to the question of route:-

FRAZER BEND TO NORTH ARM, GARDNER'S INLET.

From this Fraser River Bend-a hinging point-say Giscome's Portage, to the north-east corner of the head of the northern arm of the Gardner Inlet, a point determined by Vancouver Latitude 54 ° 4' N, Longitude "231 ° 19'," as he puts it, (in old style), but which, now, may be stated at 128 2 41' W. of Greenwich,—the distance, in air line, is, I estimate, about 240 miles — assuming Giscome Portage (eastern end) at 122° 35' W. Longtitude, and, as aforesaid, at 54 ° 25' N. Latitude.

It is, I believe, available throughout, and without "heavy work" or gradients beyond 20 or at most 30 feet per mile at any point, not even in approaching tide water. The course would be to old Fort report—page 255 of Mr. Fleming's—Fraser, (50 miles, West by S. from Fort represents the point in question at the St. James), thence along the south-sideall fine plain and lake country, almost of except onal features, with a "low level—of the North-West Branch of the "valley, three or four miles wide, form-fraser—thence along a chain of lakes, "ing nearly a plain, covered with tall known to the old Fur Trade as the Nateotain Lakes to a summit lake—reported as of the same chain—whence by a river marked "Salmon River" in the H. L. Co's. charts, as copied by Arrowsmithsee my map to "Peace River"—the water is far north for our Grand Trunk Road to represented to flow to the Pacific. I refer China. For home service it would,

State for the Colonies] England—His Exciting Chief Factor Harmon's Journal, cellency the Earl of Dufferin,—His Honor which journal I had not seen, however, at Lieutenant Governor Morris, Manitoba the time I wrote. Extract—"1812, and North West Territories,—The Hon. "January 20th, I have returned from "January 20th, I have returned from visiting five villages of the Nateotains," [Note by Ed. (i. c. myself) "Tribe be"tween Fraser's Lake and crost of the "Cascade Range, at the head of Salmon "river, which strikes at Hopkins' Point, the head of the northern arm Douglas' "channel or canal of Gardner's Inlet] "built," says Harmon, "on a lake which gives origin to a river that falls into Gardner's Inlet. They contain about "two thousand inhabitants, who subsist principally on salmon and other small "fish, and are well made and robust. "The salmon of Lake Nateotain have "small scales, while those of Stuart's "Lake have none." [Note by Ed. (myself.) "The only solution of the apparent anomaly is that the Nateotain, or Nu-"teotum, as I have seen it elsewhere "spelt, salmon is a different kind, pro-bably the powerful Ekewan—of which, "more anon, which had taken the short "cut from the sea to the height, via the " Salmon River."

> In connection with this, in page 99 of my pamphlet, I say, "I refer to all "these salmon streams" (speaking of the Skeens, Fraser and the "Salmon River" now in question) "as being, probably, "possible highways for man as for the salmon which are found in their source " lakes on the very plateau now marched "on. No salmon has ever been seen or known to top in its leap fourteen feet in "any British stream. Possibly the 'Ekew-"an' (hereafter described) of our Pacific may, in his special lithe and strength. "do more, but certainly not more than a "foot or two. These facts are measures, "approximate at least, in the question or problem of feasibilities for railway or roadway of some kind from this "plateau to the ocean."

mouth of the said Salmon River, as one "ing nearly a plain, covered with tall forest trees, mostly of the pine tribe, "extending some leagues to where the "distant mountains appear to connect "the two ranges." There, possibly, may be our Eureka; but alas! it is a little too to this in my pamphlet, page 105, thus, however, answer well—say for our moin giving certain extracts from a work, dern Eldorado—richest in the world probably—just discovered in northern Maximu n height, say 2,200 feet abo British Columbia.

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Yours, M. McLEOD.

#### LETTER VIII.

# PEACE RIVER PASS TO NORTH GARDNER'S INLET.

# TO THE EDITOR OF THE GAZETTE.

Sir,—The following is my estimate on this head—estimate unavoidably vague, but still based on some data, as given in pages 21 to 25, and 96 to 106 in the text of my pamphlet "Peace River," and in pages xii, xiii, xviii and xix of my tables of distances and heights in the same.

Mr. Horetsky (a mere ex-Hudson's Bay clerk, so far as I know, and probably employed by Mr. Fleming for his pede :trian experience as such) not being, it would seem, a railway engineer, nor furnished with any instruments to make any observations -- which probably he could not make—in determination of latitude, longtitude or distances; and as in what he does give of these last, he varies very little indeed from those given by Sir George Simpson, Mr. McDonald, and myself, and as to heights, perfectly accords with me; I may say, although mine were mere calculations from journal entries, in a canoe voyage of over three thousand miles from Hudson's Bay to the mouth of the Fraser—from Ocean to Ocean—and his are, professedly, "aneroid measurements," I am forced to rest on my own data, as re-ported and given in my "Peace River." Peace River Pass is, as I show in page 90 of my pamphlet, in about Latitude 56° 18'—256 miles north of the Yellow Head

The following is my estimate of Railway

The following is my estimate t	11 20	anna
route by it:—		
Peace B. Pass to McLeod Fort-		
continuous average grade 11		
	110	miles
McLeod Fort to Foot St. James.		
undulating, with probable		
max, gr. 20 feet per mile.	80	36
Fort St. James to Gardner Inlet		
North, along South side of		
N. W. Branch of Fraser, un-		
dulating at the beginning and		
end, but level in middle	210	15
	400	86

Elver — (measured)	973 m.		
Red River to Peace R			
Fass—my estimate.	1150 m.	2123	44
Nipissing (E) to N Gardne	er Arm.		

Total..... 2523 "

Add-Nipissing to Red

Sea.  Ilere, it may be well to give in juxta relation, the route to the same Facific point, via the Yellow Head Pass.  Niplasing to Red River—(measured)	Maximum height, say 2,200 for	t abov	e the
relation, the route to the same Facific point, via the Yellow Head Pass.  Niplasing to Red River—(measured)	89a,		
relation, the route to the same Facific point, via the Yellow Head Pass.  Niplasing to Red River—(measured)	Here, it may be well to give	e in	ineta
point, via the Yellow Head Pass.  Niplesing to Red River—(measured)	relation, the route to the say	ma F	acitic
Niplasing to Red River—(measured) 973 mlies.  Red River to Edmonton—(estimate) 750 "  Edmonton to Paes [Y H]—[measured] 288 "  Summit [Y H] to Cache—[measured] 60 "  Cache to N Fracer Bend—[estimate] 186 "  Thence to N Gardner Arm—[estimate] 265 "  Maximum height, 3,746 above the Sea:—  âdd for height above that of the Peace R route—operative quivalent 100 "  Total 2612 "	point vis the Vallow Head Par	10	worne.
Red River to Edmonton—(estimate)		55.	
Red River to Edmonton—(estimate). 750 "  Edmonton to Pass [Y H]—[measured]. 288 "  Summit [Y H] to Cache—[measured]. 50 "  Cache to N Fraser Bend—[estimate]. 186 "  Thence to N Gardner Arm—[estimate]. 265 "  Maximum height, 3,746 above the Sea:—add for height above that of the Peace R route—operative quivalent. 100 "  Total. 2612 "			
mate)			miles.
Edmonton to Paes [Y H]—[measured]			
sured]			44
Summit [Y H] to Cache—[measured]			
Sured	sured	288	64
Cache to N Fraser Bend—[estimate]	Summit [Y H] to Cache-[mea-		
mate]	sured]		60
Thence to N Gardner Arm—[estimate]			
timate]			64
Maximum height, 3,746 above the Sea:— Add for height above that of the Peace R route—operative quivalent			
Maximum height, 3,746 above the Sea:  Add for height above that of the Peace R route — operative quivalent	timatej	265	••
Add for height above that of the Peace R route — operative quivalent		2512	86
Add for height above that of the Peace R route — operative quivalent	Maximum height, 3,746 above	the 8	es :-
Feace R route — operative quivalent			
quivalent 100 "  Total 2612 "			
Total			61
	qui aloni i i i i i i i i i i i i i i i i i i		
	Total	2612	**
			١.
Walley Hand Danie with and		· · · Ali	
Yellow Head Route with ope-	renow near worte with obe-	610 -	

Yellow Head Route with operative equivalent ...... 2,612 miles.
Peace R. Pass Route ...... 2,523 "

Balance in favor of latter, say. 100 "

That is for N. Gardner Arm, but the same might be fairly assumed for the South Arm. The South Arm would be a little nearer, but, on the other hand, the approach to it would, most probably, be considerably higher.

Of the gorges of the Cascade Range, north of the Georgian Gulf, there remains but that—if such there be, as is probable -at the head of the Dean Inlet. I know nothing about it—but would have done so, I think, had it loen known to the Fur Trade in those parts; and I have under my hand and possession the best, and perhaps fullest record of the whole history, in all working detail, of the coast trade of the Hon. H. B. Co. from its very initiation. However, I see in Governor Trutch's splendid map of British Columbia the largest river through the range, in those latitudes, marked to the head of Dean Inlet. The head of the inlet is in about 52° 52', and is apparently about 40 miles nearer the N. Fraser Bend than is the N. Gardner Inlet, and is about the same distance as South Gardner Inlet, from that common shunting point. In the Arrowsmith map before me one used of old, and still, by the H. B. Co. in its work, and constructed from the Company's own charts—there is only a dotted line-signifying unexploration-from it

parison to the mountain waterfalls imme- him. But of those "Pender Rocks" that diately in view on the mountain sides) this gentleman speaks in his book as "torrents," which, according to Vancouver, (see report, page 249) "appeared to "owe their origin to a more general and "permanent source." He is speaking of the Cascade Canal, near the head of Dean's fidelity, make any mention. The same the team of the cascade Canal, and the cascade Canal, near the head of Dean's fidelity, make any mention. The same Inlet, and means, I presume, source kind of mischievous misstatement and inland. The trough of the Dean Inlet blackening, to make some point sinister, gorge is, however, clearly not that of the is made by this same "dedicator to the Gardner Inlet, and is considerably higher, Hon. Mr. Mackenzie," as to Bella Coola probably averaging 2,500 feet, or rather as a harbour. more, above sea. It certainly should be at once explored, and, in fact, the whole be—corresponding much with that of Cascade coast and range, from Bentinck Cornwall, Ireland, Scotland and Norway— Arm to Naas.

Before leaving them, I would say a word as to these

#### INLETS AND THEIR NAVIGATION.

All of them—yes, the whole coast of British Columbia, has for three quarters of a century past been the resort-conatant resort-in all seasons, of coasting traders, ships, brigs, schooners, and other craft, British, American, Mexican, Russian and others, and I never heard nor read of a wreck on it. And further, I take it upon me to say, that according to the whole world's record of marine disand usage, no safer coast anywhere, unlighted though it be. Vancouver's charts miralty, see page 245 of Mr. Fleming's report, "May 26th: With a gentle breeze isles innumerable] "we stood up Fitz. worth ten Alaskas. hngh's Sound" [leading into the channel] in the evening, with "all the sail Providence seem to point for Rule-Seat of we could spread." The Sound opens to the horsel ocean. "This by four the next morning," he goes on to say, "brought us to the arm leading to as it were by nature, easily accessible, and "Point Menzies, whose extent was left having everything required for safety in "undetermined, and where in a cove on port, lying just on the great sailing arc "shore, about eight miles without its enthe Northern Pacific, according to Maury "trace, I expected to join the Chatham." chart; with the finest of climates for In the preceding page he speaks also of active life; good soil and flora; and coast a remarkably fine cove, large and safe line low enough for a railway from Vicfor ships, in the same passage to the toria to Fort Rupert—a railway which hugh's Sound" [leading into the channel] Burke Channel but further in, which he may well be made as part of our Pacific designated "Safety Cove," marked also, I Grand Trunket may, and I sincerely hope perceive, in Lieut. Governor Trutch's to yet see it, as a result, sentimental of

to a point about midway on the trail be-tween old Fort Chilcotin and the head of the North Bentinck Arm. My idea is, that about there, there is a gorge, giving which the Hudson Bay Company's little outflow to those "larger" (larger in com-trading steamer, in mid-winter, safely bore

The coast, rough and broken though it in fact, their counterpart, but in grander scale, as is the Pacific to the Atlantic, is, to use the words of old "King of Borva" of the Hebrides, "A grand coast for fine harbours." Further-they all open out on the best coaling stations in the world, Fitzburgh Sound having on the one side, north, the Queen Charlotte Islands, with their numerous fine harbours, with coal equal to finest English, and which has sold in San Francisco at \$20 per ton—also good anthracite—and all most abundant and accessible. On the other side, south, is the north-western end of Vancouver aster, there is, comparatively to its trade Island, with its admirable harbours and excellent coal, abundant and ready to tumble from seam direct into ship's hold, and reports—our only best authority yet it may be said. To the more northern as to those PARAGES—Prove it. For inlinets, such as Gardner's—Vancouver stance as to the "Burke Channel"—first Esland is scarce in course to China, it is explored by him—and of which the true, but is so to Australia, the South stance as to the "Burke Channel"—first stance as to the "Burke Channel"—first true, but is so to Australia, the South North Bentinck Arm is one of the heads -he thus reports to Her Majesty's Ad. ern Mexico, Central and South America. The Queen Charlotte Islands, in their mineral wealth and fine climate, and from the E.N.B. we stood" [exploring an abounding fishing grounds, must become, unknown sea, with many a rocky wild of quickly, of first importance. They are

To Vancouver Island, however, does for ships, in the same passage to the toria to Fort Rupert-a railway which my poor father's subscription, (£500 stg.) lar rocky points in question, of the wav. with others, nearly 40 years ago, to the In page 266 of his "Wild North Land," Puget's Sound Agricultural Association in connection with it the great entrepot, the newer London and Liverpool combinities. From the law terrace!" (N. B. This was on the 8th May, at Spring flood) ed of a greater Britain in a wider Ocean. Ships will, it seems to me, not lose time to beat up the Straits of Fuça to the American Railway Terminus up Puget's Sound; easier for them would it be to discharge at Victoria, Barclay Sound, thence may connection be made with both Railway Termini, British and American. From Victoria to Bella Coola is only thirty hours, perhaps only twenty-four hours' steaming.

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## BUTE AND BURRARD INLETS.

As to the only other Inlets calling for notice, viz., Bute Inlet and Burrard Inlet. have .17 one word—a sad one—to say. They were, or at least Burrard was our best for railway terminus. Now, both are blocked to us by the guns-foreign-of

## PEACE RIVER PASS AND OTHER PASSES.

Peace River Pass is thus described in Mr. Horetsky's report as given in Mr. Fleming's, Page 49. "We experienced "a very stron; current all the way up to "the Finlay Branch (70 miles), i.e. 70 " the head of the Portage to within a few "miles of the Finlay, the Peace flows through the entire Rocky Mountain " the valley is encompassed by mountains "of not very great altitude, but a little east of the "Rapide qui ne parle pas," "the main range begins, and the river " flows through it for about 25 miles, and "until within a few miles of the Finlay "Branch, and within this distance, peaks "4,000 and 5,000 feet above the eye, ex-"tend back north and south as far as " visible."

"The banks within this valley are very " rugged. There are gravelly terraces " here and there, but steep and projecting " rocky points occur at frequent intervals, "and in many places the mountains rise "up sheer from the river, neces-"sitating," avers Mr. Horetsky, "in

"and heavy works of construction."
I want to "nail" this statement, Mr. Editor. Captain Butler, the last, and certainly not least, but, with Professor with it, it ought to be stated that Mr. Macoun, the fullest and best authority Horetsky is himself claimant to the on this point, thus describes the particular trouvaille"—that, I believe, is the term

along the shore they rose in stupendous "masses; their lower ridges clothed in "forests of huge spruce, poplar and birch, &c." Page 267. "For two "days we journeyed through this vast valdischarge at Victoria, Barclay Sound, "ley," (i. e. through the range proper, Quatsino Sound, or Port Rupert, and approaching the head of the Pass) "along 'a wide, beautiful river, tranquil as a lake, "and bearing on its bosom, at intervals. small isles of green forest, &c." "Thus we journeyed on. On the evening " of the 8th of May we emerged from the "Pass."

> This description of impedimenta is unfortunate; but in connection with it, it ought to be stated that this same Mr. Horetsky—a subordinate officer, who seems to have ignored his chief, in his duty—has, primo, published, in advance of, and forestalling Mr. Fleming's report, a book, being a report of this same expedition in so far as he took part in it. It is "by permission" "dedicated to the Hon. Alexander Mackenzie, Premier, &c.," " by the author."

I refer to the incident as something-I shan't say monstrous—but certainly out "miles from the head of the Portage at of the ordinary course of nature in official the east end of this river Pass, and enlife political. Mr. Fleming is our paid "countered two rapids or falls. From Chief Engineer—our servant. As such, at our, the public's cost, he employed this subordinate to do certain work, viz: to get and bring to the table of our House "range. For 30 or 40 miles from the of Commons that precious thing, I—as head of the Rocky Mountain canyon, Mr. Fleming so honestly states in his official report—had pointed out—had, as he says, "particularly drawn his attention to," viz: the "solution of the McLeod theory," as houest John Macoun calls it— as to the Peace River Pass—Master subordinate finds it—just as told in my very pages in his hand. It became, then, in ordinary official dealing, a sanctity, to be laid before the people in due course by its delegated high-priest, His Excellency the Governor-General, by the ministry — subordinate still, in a sense of his Minister ad hec. The thing —yet covered in the hands of this subordinate—is taken to Mr. Mackenzie, is offered to him, individually, in a sense. He takes it: abuses it, to the "the case of road, many deviations public detriment, and uses it, in a way,

to his own sinister ends.

Secundo—This description of impedi-

him—to another: a "better" pass, "pro-bably," as he contends—further South,

In this description I am fully borne some 40 or 50 miles, called—by the Indians, for no white man has yet seen itthe "Pine River Pass." Fortunately, his companion, Professor Macoun, who had no such "mare's nest" in his mind's attractive coloring to the eyes of the eye, to divert him from the due apprecia world, of their new pastures; but they tion of the important physical facts, to were men of truth. In Sir Alexander Engineer, gives us, in his most able report, 97 of Mr. Fleming's report :- "The Peace Horetsky as decidely wrong. "River valley, through the mountains' (the italicization is my own; the words struction) "presents no very serious diffi-"culties to the construction of either a "railway or waggon road."

He then describes, at much greater length than Mr. Horetsky, the special features of the Pass and its approaches from the east, facility of bridging, "about "eight miles below Hudson Hope, and the "road to be carried up the left bank of "river all the way through the moun-tains." • "Having passed down the Fraser and over the Nevada," he continues, "since seeing Pesce River, "I can say decidedly" (the italics are Mr. Macoun's) "that there is no comparison between them. The nearest approach "to Peace River, in appearance, is that "of the Fraser between Fort Hope and TO THE EDITOR OF THE GAZETTE. " Harrison River" (all smooth and open) "where no canons exist, and to give a "correct idea of the extent of the"
(no.) "chief difficulties of the Peace
River, I may add they do not extend "over more than about 6 miles."

As to snow difficulty, as well as the general features of the Pass, the truth is fairly stated by me, with authorities on page 96 and preceding pages in my pam phlet Peace River. In final citation 1 give it:

" There is, in fact, no snow diffi-" culty " open gateway-ever clean swept by every " wind of heaven. It is the most manifi-"cent gateway between the two "worlds" " of this earth, and bears the isotherm of "to it, and there striking the centre of with all possible energy.
"a gold region probably the richest in That in British Columbia, the line from

used by him, or some one who writes for |" the world, would fast people the whole

In this description I am fully borne out, not only by the authorities above stated, but those older authorities, whose position and active Interests and life at the time, as leaders in the Fur Trade, forbade specially examine which and truthfully McKenzio, Sir George Simpson, Chief report thereon, this "Branch Expedi- Factor Harmon, Chief Factor McDonald, tion was despatched by Canada's Chief [Fur Traders all], I find evidence enough to enable me to say :-- Messrs. Macoun and a somewhat different account, thus. Page Butler are decidedly right, and Mr.

So much for routes. On other branches of this great theme are his) "as far as I can judge" (better—the scheme as at present hid—its exjudge than, so far as I know, one who had never had experience in railway concalled, "financial basis," I would like to offer a few remarks, but they are scarcely proper to me, in my own name. As to this matter of routes, I had to defend myself, when attacked and almost robbed of my just credit as to the same.

Thanking you for your generous columns,

> I am, Mr. Editor, Yours ever, M. McLEOD.

Aylmer, Q., June, 1874.

#### LETTER IX.

Sir,-The conclusions I arrive at, on the above, are briefly as follows:-

1. That exhaustive survey has determined Mr. Fleming's "Route No. 2," as laid in section sheet 9 of his report, as not only feasible, but as the best possible, in every respect, from Eastern Terminus to the Prairie Region.

2. That in British Columbia, exhaustive survey has proved the necessity of looking to some point North of the Georgian Gulf for a Western Terminus.

3. That a thorough, or at least, suffi-"culty whatever at the Peace cient exploration, by competent and "River Pass, not even in mid-Winter; reliable men, should be made of all "the threshold is ever clear as that of an British Columbia, from the Rocky Mountains to the Cascade Range, between latitudes 52° and 57° N., for Railway route.

4. That in the meantime, between Red "strongest human development. A great River and Aipissing Terminus, the work "Territorial Road [with branches] direct of construction should at once proceed,

whole

And that in Manitoba, with like urgency, the Pembina Branch should be "pushed

at least half of that, now being raised in compensated by beneficial returns in a England on the pretension that the great scheme is to be faithfully and earnestly begun and carried out.

#### INCIDENTAL

to the above is the consideration of "ways and means." This branch of the subject is beyond what I intended to touch on, but, as I have already done so in my Britannicus letters of 1869, in the course of which the editor of the Ottawa Times of that day yielding, after controversy, to the force of my argument against allenation of the "Crown Domain" in areas of such extent as to create a predominating class interest to the jeopardy of individual political liberty; and to my argument also that the "Crown Domain"to called-is a holding merely in trust by this Government for due administration, and only administration, in permanent national behest, happily suggested a system of hypothecation of lands to the end Issue about 8 July, 1869-or about then—I have not the precise words. The "idea" struck me with much force, and I really think it is, as matters now are, the most practicable one that has yet been mooted : adopting it, I respectfully question of Britain in America.

conclude,
5thly. That our best North-West and British Columbia lands, to adequate ex-

Victoria to Nanaimo should at once be tent, should be hypothecated, and in due course, for settlement, be sold, on terms to attract, and that the proceeds should be appropriated to the establishment of a

through."

All this may, I presume, at once be begun with the eight millions of dollars, or thousand shapes, ought, I humbly think, to be a financial basis that none should complain of.

6thly. But, above all, this great Canadian enterprise must not be made the plaything, or worse, of political parties; but as a work vital to our national existence, must be nonertly as well as intelligently dealt with; and, moreover, be urged with all our power.

The scheme as at present laid before us, by the present Government, in its executive and financial aspects is, I think, utterly impracticable. In fact, their whole policy, from first to last, in it, has been one really of obstruction, though latterly (probably to raise money in England) they give it seeming countenance. The subteriuge is too transparent for us at home, here. They speak of "selling a charter." There was no sale of charter. But that aside. They, really, are selling not only a railway charter, but our charter of charters - that which we acquired at Runnymede; for on this scheme-its success, or its failure-rests, I take it, the question of all British charter right-

Yours ever faithfully,

M. McLEOD,

Aylmer, June, 1874.

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