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G. M. Dawson
april. 19. 1894

April 19. 94. Some time ago, when it was supposed that the matter of 'Regulations' as included in the award of the Behring Sea arbitrators might by mutual consent of GB & the US. be subjected to modification or revision in the supposed interests of both parties, Sir C.H. Tupper intimated to me that in that event I would be requested to proceed to Washington (as plenipotentiary) to represent the Canadian interests in any such negotiation. This fell through & acts for now been passed by the parliament of GB & by the US. to put in force the precise terms of the award. It remains, however, to arrange for the necessary provisions to bring into effect Clauses 4 & 7 of the award i.e. those referring to the licensing of

Sealing vessels, the distinctive flag & the method of ascertaining the pictures of the hunters. About ten days ago Sir Chas. Tupper informed me that I might be asked at any time to go to Washington on this matter, & despatch being then received from England to ask that a Canadian delegate should be ready to go whenever notified by Sir Julian Pauncefote. Being very busy with my own report work etc I was not at all anxious to be summoned, particularly as it appeared to me that the matter required but little local knowledge of knowledge of natural history & might easily be looked after by any instructed solicitor. As however, ~~I consulted~~ ~~the~~ I consulted it I to the wish of the Canadian Govt. that I should

go, I of course accepted the task. The matter seemed urgent & I immediately got ready there & looked up the points which would be required. Then arose a contention about the terms of the British act which were objected to vaguely from Washington. Alterations were made by way of amendments to the act in the Lords, but as no full communication of the amended act has reached the ~~Hon~~ Canadian Govt. the purport of them is not known precisely to me. In any case a delay occurred which appears to be explicable by the fact that the U.S. Govt. did not wish to go on with the arrangements for Clauses 4 & 7 till satisfied that the Guard act met their views. This at least would be in line with their policy of "Kiting"

carried on throughout.
In any case, yesterday, when I had begun to hope that the demand for my services had blown over, Sir Cff. T. sent me a despatch received by the Foreign Secretary from Sir Julian Pauncefote asking that a deputation should be sent from Canada on the above claims in time for a conference on them on Saturday the 21st. I thus had to complete my preparations & leave by the 2.30 train today. I am furnished with instructions (based on a memo. written by myself) in which I am directed to place myself in communication with Sir Julian immediately on my arrival in Washington.
A very tedious ride, with one change, to St Albans, before getting

a Pullman car, & nearly starved by the way, as, our train arriving late, we had a scant 5 minutes to get anything to eat at St Albans.

April 20. Arrived at New York at 6.45 a.m. & to the Murray Hill Hotel. Breakfast at 8 & left at 9.15 for the Ferry. Left the Jersey City side at 10.24 & arrived at Washington at 4 P.m. after a very hot turning journey, the heat being partly due to the weather & partly the artificial heat of the Cars. To the Arlington Hotel, where I had barely completed a change of clothes when Sir Julian Pauncefote called, very kindly, as I was just about to set out to call upon him. Asked me to dine with him & Mrs De Bunsen

the Minister in Japan, who has just arrived here, & who furnished various useful items to Sir George Baden-Powell & myself while Behring Sea Commissioners, being on fur sealing on W. side of Pacific.

Vegetation as far as Wy. is not much in advance of Ottawa, where we have an unusually early spring, but it is a couple of weeks in advance of Wy. here, the fruit trees all in bloom & many of the earlier kinds coming into leaf.

Dinner at 8 Rm. Sir J. Pauncefote, De Bunsen & self only. Talk over business afterwards, Sir J. speaking very freely of the whole matter. He thinks ~~that~~ Secretaries Gresham & Carlisle anxious to do what is right, but attributes an opposition to action of

Senator Morgan, Chairman of Committee of Foreign Affairs, of whose ability his opinion is not to be taken by some, formed during the arbitration proceedings at ~~Paris~~ Paris. Lady Pauncefote & the Misses Pauncefote have left for England a few days ago & Sir J. speaks of leaving soon, Mr Gorton to be here in his place.

April 21. The Attorney General Sir Julian had arrived, for today at 10 a.m. he expected would be at Dept. of State. Following his indication I went there & found my way to the Diplomatic waiting room, with which I had already been familiar during the Fishery Conference of 1887 (or 88) & the sittings of our Behring Sea commission in 1892. Sir Julian shortly after turned up, with Mr Gorton, who he is anxious should be

aware of all that may transpire.
Enquiries show that Secretary Gresham
is not in his office & that the Conference
was supposed to take place in the
Treasury Dept. So far as can be
ascertained. Make our way thither,
Sir J. explaining that matters appear
always to be conducted in this happy
go lucky style, though he adds the
authorities do not seem to be disrespectful,
a remark which perhaps may indicate
that he does not omit to make the apparent
inquiries. After arriving at the Treasury
Dept. & after some telephoning, the
gentlemen expected got together i.e.
Gresham, Sec. of State, Carlisle,
Sec. of Treasury a naval commander
in charge of the Yorktown & Behring
Sea fleet last year, Sir J. Pauncefote,
Mr Foster & myself.
Just before the arrival of the secretaries, I

had spoken to Sir J. of the apparent difficulty in regard to sealing vessels sailing back from Japan or Russian Coasts or going north to Behring Sea for fishing after May 1st, in both cases through prohibited waters. He opened the discussion by bringing this subject forward, it had evidently not occurred to him before & had apparently not occurred to the U.S. authorities. I explained the conditions, instancing also the case of vessels legally sailing up to May 1st & then proceeding thence in prohibited waters 500 miles or more north of Victoria & liable to seizure. Everyone & Carlisle seemed to see the difficulty, & were prepared with Ships wrt, in prohibited waters sufficient to justify seizure as would appear to be the case by the terms of the U.S. act—

They suggested that instructions to naval officers might be such as to obviate this difficulty without hardship to those having sealing rights, or not taken actually engaged in sealing after the prohibited period. They little spoke very favorably in the matter, though the naval officer evidently with difficulty concealed his animus against all Pelagic Sealing. The propositions made to meet this difficulty were, that vessels leaving Victoria etc to seal in Behring Sea, should do so with their arms under seal, till arrival in permitted waters. Similarly, that vessels sealing along the Pacific Coast till April 30, should then report at Sitka, Port Simpson, or other Government port, or to any Cruiser of either nations met with, their arms sealed, & be provided with a

permit to other Treaty ports. It was also suggested by Sir J. & apparently concurred in by the others, that a penal cell should be established at Atto I., where sealers might work etc & where a vessel of each power might be detained to issue proper permits to vessels returning from the arctic coast, either to Treaty ports, or with intention of sealing after Aug 1. in B.S. also that Consular officers in Japan be authorized to issue similar permits & see to sealing up of arms etc.

The question of licence then discussed, Mr C. Tupper's draft & the U.S. draft compared. The letter specified that the men should be named & described on the back of the licence. Sec. ~~Carlisle~~ Evesham appeared on the whole to favour our draft, but we considered

difference of opinion developed. Matters of a distinctive play were discussed & that of "fitness" of hunters. A yellow & black flag divided diagonally, proposed by the Novel man. No objection made to this. The last question appeared to be considered as very intangible by both parties. Graham stated that he had asked Senator Morgan if he could propose any method which would carry out the part of the award satisfactorily, but had not received satisfaction from him on the point. It appeared to be generally recognized that it would be impossible to provide any really unique conditions of this kind the present heat.

So far as I'm, conferences have spoken they fair & I think that the secretaries intend to be just, but are prepared

to find when next we meet that the Foreign influence has been at work & that all sorts of difficulties will be brought up. am much more inclined to think that Harlan is at the bottom of these difficulties than poor old Wagan.

In afternoon called at U.S. Geological Survey, saw Stanley-Brown, Powell, Marsh, Walcott, Garnett, Bailey Willis & others. In going Walcott called & I went with him to the Cosmos Club, meeting several people there, including Wendemuth.

Sunday Apr. 22. Called by appointment at the Embassy soon after 10 a.m. & spent about an hour discussing the matter of licences etc with Sir Julian, also that of issuing permits or passes to sealing vessels not actually sealing (though with outfits) when

crossing prohibited waters to return home or to reach sealing grounds. Since yesterday Sir J. had received a cable from England on this very point, asking him to write such ministers. This no doubt the result of my note to Sir C. Tupper of some days ago, calling his attention to fact that the act appeared to be ~~capable of~~ capable of construction such as to prevent sealers from reaching B.S. Oceans prohibited waters. It is very difficult to cover this contingency. The only fair way would have been to make actual sealing only proof of infringement. Spent most of P.m. endeavouring to draft something on these points. Left the draft at Embassy about 5 P.m. Then to Stanley-Browns, pr. tea or dinner & spent the evening there.

April 23. To the Embassy at 10.30 & appointment & spent the whole morning giving our licences, rules etc respecting sealing and seizures. Got a draft made out which appears to be the best that can be done & which Sir J is now type-written in triplicate, sending one a copy for transmission to Canada. Afn. left cards at Depts. of State & Treasury for Secretaries Bentham & Carlisle. Then to U.S. Geol. Survey, meeting Walcott, who showed me some remarkable Middle Cambrian Medusae at which he is now working, also a lot of sections & specimens of Dendroidea from the Californian region about which I had previously written to him to ask whether there were any

forms like my Lophura Columbiana. Some of his specimens seem I think like it, though there are certainly some very remarkable Tanolinas. Saw Diller & looked over some of his Taylorville (Cal) rocks, but none of them closely resemble my from allied Triassic etc diabases from Kamloops region. Returning to hotel found typewritten copy of the draft & wrote a long letter with it to Sir Chas Tupper. Eng. wrote to William & to Trounce.

April 24. To the British Embassy about 10.40 & there discussed a few final points which had occurred about the draft of Licences, Rules etc. with Sir John. He telephoned to find out whether a meeting could be arranged with the US. authorities, but the Secretaries

had gone to Cabinet meeting.
Sir John stated that he proposed
telegraphing to Lord to point
out that the British Act did not
include provision for seizure of vessels
with sealing implements or skins on
board, but not actually sealing, ~~to~~
~~this I ventured rather to demur~~ & to
suggest that the 'instructions' stated
the provision when sent to Cruisers.
To this I ventured rather to demur,
relying upon Sir C. Russell's &
Sir R. Webster's opinion, contained
in the correspondence, to the effect
that the presence of sealing vessels in
prohibited waters was not in
itself illegal, but only the exercise of
sealing there. The matter then dropped,
but on returning to hotel, looked up
a minute of P.C. of Canada which
I had in type-written form, &

which furthed the Opinion referred to, & sent it to Sir Julian, stating that it would arm him to resist pressure for such instructions.
Telegraphed to Sir C. H. Tupper asking how many vessels (Canadian) were supposed to be out obeying the Lieut. Govt, & later received his answer that 24 had cleared.
After lunch, wanted save time in case Sir Julian should wish treating of an appointment & then set out for Natural Museum, but it got so near 4 Pm before I got rear it that I abandoned the idea & went instead to call on Mrs Stanley-Brown.
On return found Sir Julian's letter about of an appointment at Treasury Dept. for 10 Am tomorr. Saw the instructions set out in

tonight's Star which am said to have been issued to U.S. Cruisers. Have I reside that vessels with sealing arms or skins on board would be seized. I wrote to Sir Julian, thanking that I might not have time to bring it properly to his notice before conference tomorrow, pointing out that the large U.S. fleet assembled would probably under these instructions seize nearly the above vessels & send them with large crews to Victoria. That this would be in the exercise of a rule not laid down in the award & would effect them while formally forming them perfectly legal homeward voyages. That this would strong be very humiliating, but would also leave the owners in each case with an action to defend in

the Courts, actually certain
cost on them & finally the
use of their minds for the urgent
dealing, while there was now
no possible means of adressing
them by any premium for purses
before the end of this month.

April 25. Met Sir Julian
Pauncefote by appointment at the
Treasury Dept. at 10 a.m. & introduced
with him to Sec. Carlisle's office,
where, with Mr Goschen & Capt.
Evans had a conference of some
length, based on a draft made
out (by Evans presumably) embodying
provisions under general agreement of
points to be covered, provisionally
drafted. Then adjourned to Capt
Evan's office, where details of
provisions further discussed. Return to

the Secretaries office, where arranged that Capt Evans should complete a draft under captions setting out the purpose of each section. Sir Julian & self to return at 3.30 P.m. At this time the new draft read, Sir Julian having allowed our draft to pass on, under impression that the matter would be more fully arranged by letting U.S. authorities frame the terms themselves. This proved to be correct & the draft generally approved, the Secretary of Treasury adding a clause (for approval by President) making the powers of U.S. & British officers reciprocal. Also agreed to add a clause which I had drafted, explaining generally the objects the provisions & enforcing officers to act on their own discretion in any cases not found to be strictly

connected by the provisions. Evans made a press copy of the typewritten draft, which, Sir J. having to go, was given to me. This I had to copy & then send the original to Sir J. the copy to Sir C. H. Tupper, with explanatory letter. Had hoped to attend meeting of ~~XXX~~ Geol. Soc. of Washington, held tonight at 8 P.M. but proved that before I had finished a long cipher despatch to Sir C. H. Tupper it was after 9 P.M. & so did not go. My despatch to Tupper as follows. — "Have posted draft arrangement acceptable here affording protection under all contingencies except actual hunting in close season. Please return opinion promptly. Instructions American fleet published yesterday premature

will be modified."
The last-mentioned letter arose out of the publication mentioned yesterday. The Sec. of Treasury professes ignorance of the reason for publication & states that it arose from some mistake as he had told Sec. Herbert of Navy that arrangements would have to be made to safeguard dealers not knowingly infringing the regulations. Sir Julian Pauncefote evidently considerably annoyed by the premature publication, which he stated would be telegraphed to England & would lead to questions there. Sec. Carlisle stated that the instructions would have to be modified in accordance with new arrangement. Sir Julian has given evidence of wishing to be perfectly just in his action, & w

appearance of foreign influence from outside in regard to the proposed provisions for safety of igorantly offending sealers.

April 26. Sir Julian Pauncefote left yesterday evg. for Baltimore & is to be absent all today. Went over to U.S. National Museum, called on Dr White, but found him out. Saw Mr Stanton, Fowler, & looked over specimens of Zerbrotola Humboldtensis & other Triassic fossils, including a number collected by Diller, but not yet described. Also a lot of new fossils from the Cretaceous Ancella beds of California. Looked for Doll at the Smithsonian, but did not find him. Rem. to U.S. Geological Survey, spent some time with Bailey Willis looking at new maps & methods of

shopping. Then with Newell, looking at current meters etc used in ascertaining volume of drains & in relation to drainage & irrigation surveys. Looked in on Mr Gilbert. Recd a telegram in clear from Sir C. H. Joffer, promising a reply this P.M., & the driver got a long code telegram, which it took me some time to work out. Objection made to proposed provision for passes, as interfering with right of navigation recognised by arbitrators award. Text as follows. — "You were instructed to discuss sections 4 & 7. Subject of passes involves nautical extension of regulations prescribed. We object to any provision which by implication or otherwise sanctions interference with vessel not violating or which

has not violated the regulations. Proposal inconsistent with our rights navigation recognized by the award. Language of fourth indorsement too wide. See first indorsement & limit fourth accordingly. Writing."

The first sentence appears to intimate that in discussing matters beyond Sects. 4 & 7 I had exceeded instructions, which doubtless strictly correct, but as it had previously been proposed to extend me with wider powers as to regulations when it was thought there might come up for revision, it did not appear to me wrong to offend Sir J. by assistance arising from local knowledge in providing for conditions under which the provisions of the act must be carried out. I had already told Sir Julian that I was not in a position to state the position of the Canadian Government on these matters. If I were

to follow indication of the first paragraph, I might telegraph that as Sects. 4 & 7 were now practically agreed upon I had better return, but latter part of telegram seems to require further notice on my part & to ask for revision of fourth endorsement on licence. This fourth endorsement has already dropped out of discussion. It was prepared, but never actually shown to U.S. authorities. The arrangement drawn out by U.S. on Sir J's suggestion now provides enough to tide over difficulty for this year of vessels at sea without licences or flags. This should be in Sir C. Tupper's hands tomorrow morning.

July 27. To the Embassy at 10.30 & spent the whole morning with Sir Julian, consulting on the telegram received from Sir C. Tupper

& going over the draft proposed arrangement for the Seaman, resulting from Conference on 25th. Sir Julian drew up a form of lodging an question of principle to be addressed to Ottawa & stated that in event of objection being made to any seizing up of arms etc as suggested in arrangement would have to refer the matter to England for decision there. After lunch I spent nearly two hours paraphrasing & copying Sir Julian's draft to Sir C. Tupper. Then to Telegraph Office. Received a "clear" telegram from Sir C. Tupper summarizing a memorial from Sealers which he is sending, Copied the telegram & sent the copy to Sir Julian. Received a note from him asking me to go to Sunbury after dinner or to dinner, to talk matters over, wrote letter to Sir C. Tupper

& spent worthy remainder of
being at Embassy.

April 28. Sent off cipher message
to Sir Ch. Tupper stating that
message sent yesterday expresses
Sir J. Pauncefote's views. That I
do not propose to present views of
Govt. beyond my instructions, but
personally think arrangement proposed
Wednesday, tho' considered temporary
& without prejudice, would afford
Sealers privileges they ask for in
their memorial to Sir Ch. T. of
which he sent abstract today.
To Coast & Geodetic Survey, but
Prof. Mendenhall out of town. Then to
U.S. Geol. Survey & went over the
wood Engraving & printing
establishment with Mr Bradley
Willis.
Pm. went carefully over the draft

regulations but proposed & sent them back, with my notes attached, to Sir Julian. Just before dinner received a long cipher despatch from Sir Chas. T. in which strong ground taken against any interference with sealers unless actually infringing the law. This represents view of Canadian Govt. Did not complete deciphering the telegram till nearly 10 a.m. Then sent short note to Sir Julian, informing him of general position taken & proposing to call tomorrow a.m. Received tonight also letter from Sir Chas. T. criticizing the first draft sent, including rules re passes etc intended as an endorsement to licenses. objects on part of Govt. to any such passes. accepts form of licence & flag.

Apr. 29. Sunday. Found another long letter from Ch. J. waiting me this morning. Objects to second draft arrangement stated by me on twenty-fifth in toto & adds that Can. Govt. never asked to send delegate to discuss such propositions. Before deciphering this had a message from Sir Julian to say that he would be glad to see me in reply to my note running telegram sent last night. Thus hurried to Embassy & there waited to decipher this morning's telegram. Then for a short walk. Called at Stanley-Brown's but not one in. Dined along with Sir Julian in Eng. & afterwards discussed situation at length. He has today received the instructions to British Cruisers

which does not authorize seizure of vessels merely carrying sealing outfits through waters at the time closed, also instructions by cable from Lord Kimberly to notify U.S. that British act did not give powers as above such as given in U.S. instructions to Cruisers & that consequently they could not be reciprocally granted beyond terms of British act. This I fear may raise difficulty here.
I duly communicated protest of Canadian Govt. against any system of passes etc recognising right of seizure & search over vessels not actually engaged in sealing. Reinforced it by arguments showing that such provisions under conditions of sealing practically unnecessary. Sir Julian is drafting a memo. on the whole

subject to Lord Kimberly. The
matter must in the meantime
stand. But the question of tiding
over the immediate difficulty, when
sealers out without licenses or
passes, still remains.
On return to hotel got a message
to Sir CH J with cipher explaining
situation.

Ap. 30. Sent off cipher message
of yesterday evening & followed it
by a message in clear summing
receipt of copy of Sealer's memorial
& stating that I shall be happy to
return whenever authorized.
After examining Sealers memorial
transmitted it to Sir Julian
Pauncefote, & after lunch received
message from him asking me to
go to Embassy. He explained that

he had been doing in the way of notifying U.S. authorities of the announcement from England that the act of Parliament did not admit of sealing vessels under carrying sealing implements. He read a note to that effect to Sec. of State, then called & in the end also saw Herbert, Sec. of Navy & Carlisle, Sec. of Treasury also. Did not seem to find any great assumption of surprise or hostility on their part, which somewhat surprises me, but is good. Referring to Seal's memorial, he proposes to get it to main against Lopez & use it as a text for further discussion of any proposals which may be made for the current year. Talked over substance of another note, setting out conditions under which seizures of Br. Vessels

way to wade, their liability for infraction terms of award, but for absence of licenses & flags when they had sailed before the Act promulgated. Proposed that it should be stipulated practically that such vessels had licenses & flags & that their papers (or) should be endorsed by any Cruiser to that effect. Asked me to make such a draft, though as a personal matter, & without accepting any responsibility. This I did in Pm. & sent to him after dinner. Sir Pm. also wrote at some length to Sir Ch. Tupper, explaining state of affairs generally. Got a reply from Tupper to my telegram by this Pm. Saying that whenever I considered articles 4 & 7 (numbered) I might return & I found nothing

she to keep me. Called in at Cosmos Club in the evening & met a number of people there.

May 1. Called at Embassy this am, about 11.30. Read our draft which I had made for Sir Julian with his corrections & alterations. These I think improve the draft, as an explanation to the Ds. authorities, of the actual circumstances under the British act under which the arrest of British vessels may be possible. Sir J. Carpel to state in connection, to me that I am not in any way concerned in the wording of this explanation, which he had merely asked me to put in form for him. This I understood from the Jerist, but at the same time, the statement does not include any points which appear to

me to be doubtful. Sir Julian then read me two a ~~despatch to~~ Colle to Lord Kimberly & a despatch, at greater length, explaining the situation in regard to the provision of safe conducts for sealers crossing orders of the time forbidden etc, giving the policy pursued by Canadian Govt. against any such measures as interfering with navigation etc. I concur in the accuracy of the statement, but do not fully agree — nor am I informed to agree at all — with his argument in favour of a system of such safe conducts as a provision for this year.
Said good by. to Sir Julian & returned to hotel. During P.m. received a telegram in cleaar from Sir C.H. Tupper stating that many of the sealers would be at Halifax in June,

& asking what was proposed in regard to passes for them. Made a copy of the telegram & wrote a draft reply, stating that licences should be sent signed in blank to Legation at Tokio, with official seal of B.C. sealers. That there would, according to instructions to Br. Commissioners, be delaying of vessel officers & filled in. That Sir Julian would ask have Govt. to instruct Minister at Tokio. Returned to Embassy with these papers, but found Sir Julian out. Saw one of the aides, however, & left the papers with a message to Sir Julian. During dinner, received his reply, approving of message, with two slight modifications. Sent off the message to Sir G.H.T., adding note that I proposed leaving tomorrow

warning. Telegraphed to Selwyn that I hoped to be back in Ottawa on Thursday. Dr Dell called in the Evening & I had a long chat with him. Very warm day.

May 2. Left Washington by 11 a.m. train for Niag. & notwithstanding the usual provoking delays in crossing Niag., managed to catch the train leaving at 6.25 by the Vermont Central Ry. A very hot Tuesday.

May 3. Awakened at 5 a.m. & got out at St Albans at 5.30, the train being on time. Got a good breakfast there & left again for Ottawa at 6 a.m. Change at Rouses Point & eventually arrive at Ottawa a

few minutes after 11 a.m.
to Victoria Chambers, both to
change. Telephone to Marine &
Fisheries Dept., but being a
holiday (Ascension Day) fail to
get reply. To Survey & Telephone
again to Sir Chas. Tupper's house,
arranging to meet him at 10.30.
Afterwards find that Dr Bourinot
had called a meeting of
Ottawa members of Royal Soc.
Canada for 8 P.M., & wrote only
charge hours, making arrangement
to meet Sir Chas. T at his office
tomorrow a.m. at 10.30

May 4. Called on Sir Charles
Tupper this a.m. & explained matters
to him generally. He stated that he had
recd. a private telegram from
Sir J. Pennington stating that he

(Sir J.) had had an important interview with Sec. Gresham (Sec. of State) offering departure & hoped to be able to arrange matters to the satisfaction of Canadian Govt. I take this to mean that his new project had been formally received. Sir Charles asked me to prepare a memo. for notice to sealers & another as to methods of supplying licences & flags for the present season, both of which I draw out this evening. Busy most day overcoming arrears of correspondence which have accumulated since I left.

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Cab. Ottawa	.50
Return ticket to N.Y.	22.00
Sleeper, St Albans to N.Y.	2.00
Ap. 20 Porter at N.Y.	.50
Telegram to Arlington Hotel	.25
Cab. to Ferry	2.00
Porter	.25
Ticket. N.Y. to Washington	6.25
Parlour Car	1.25
Porter	.25
Omnibus at Washington	.25
Porterage	.50
Ap 24. Telegram to Ottawa	.59
Ap. 25. " " "	1.60
Ap. 27. Messages to date	1.25
" Telegram to Sir C.H.T.	2.63
" 28 " "	1.86
Ap. 30 " "	1.70
" " "	.69
May 1. Telegram to Dr Schurman	.50
" " to Sir C.H.T.	2.12

Aug 2 Expenses to date 1.75
Porterage Washington 1.00
Lifts & washing to Reg. 6.25
Parlour car 1.25
Aug 3. Cab. Ottawa .50

Cab Reg. $2
Sleeper to Stations 2.00

1914

George M. Dawson

Private diary
1894.

June 23 Saturday. 1894. Completed arrangements & packing for the west, & left 1.15 am (June 24) for Medicine Hat with McConnell.

June 24. Sunday. Travelling westward all day, fine & warm.

June 25. Pass Portarthur this a.m. & on toward Winnipeg

June 26. Reach Winnipeg 8 a.m. Go up town to Veranda Hotel, where breakfast. Back to Station & leave at 10.30. This day & yst unpleasantly warm.

June 27. Reach Swift Current 9.30 a.m. Reach Dunmore at 3.30 & get off by branch line to Lethbridge at 4 P.m. Arrive at Lethbridge 10 P.m. & put up at Lethbridge House. A Mr Bentley on the train, from whom got some general

information. Mr McGrath called & offered to assist in any way.

June 28. Saw McGrath & discussed plans with him. He very kindly undertook to enquire about transport & fortunately succeeded in getting I think just what we require, a spring wagon with team & extra riding horse. Looking after supplies & making other arrangements. Rem. with Mr Bentley (brother of above & ex mayor of the town) & a Mr Higenbottom, to bluffs about 4 m. below the town, where examd. drift deposits. Mr Bentley kindly driving us there.

June 29th. Got away from Lethbridge in trap above described. Drove to Kipp & stopped at the ferry for lunch. Then on to near Wade Lake, where after some enquiry we found Mr McFarlane's house. We had been directed to Mr McFarlane as one knowing all about a bone deposit, of which I had heard. Mr McFarlane very agreeable & allowed us to camp on good spot near river on his ranch. His house

built very near the site of old Fort Weatherwax, one of the Whisky trading posts of former days, but of which all trace has now been removed. Mr Farlane located here in 1875.
Feel it quite pleasant to get into camp once more.
Very unpleasantly windy ever since we got to Seltbridge, but weather otherwise fine. Wind often quite cutting & cold.

June 30. Drove back three or 4 miles with McFarlane as guide, to the bone locality. This proved to be only the site of a very old buffalo pound. Found a few arrows (very small ones & roughly made). Return to camp & meet McC who had meanwhile been examining a bluff of Boulder clay. Lunch & drive into Mac Leod. Wagon needing some repair & various other little matters to attend to, spend much of the P.m in Mac Leod. Met J. Dennis, Neale, Haultain & others, including manager

H.B. Cos. Store here, who has a remarkable story about finding a skull in the soil below the trees, of which a tooth had been pronounced by some competent authority to be that of a polar bear. Eventually got away & took the trail for Oleson Creek, in southern part of Porcupine Hills. Got late to a place where we thought we could camp, but after unhitching found no water. Moved on again to main valley of Oleson Ck, where found a fairly good camp. Very tired & annoyed by battling all day against a gale of cool wind. Face & hands badly sun- or wind-burnt.

July 1. Sunday. Off with McC. in hills to the north, getting back about 1.30 P.m. Did not move camp, but spent P.m. writing up notes etc. Day warm, but tempered by light cool airs, particularly on the hills. Magnificent views across the plains & of the Rocky Mts. from the higher points. Find terracing & Laurentian drift as far up as we got - everywhere

July 2. Move camp to Beaver Ck, crossing the southern hills of Porcupines & then travelling some miles up Beaver Ck. to place where we are near high ridges seen yesterday. Beaver Ck. valley remarkably picturesque, & several settlers now located upon it. Grassy foot hills & higher timbered slopes, with scattered high lateral valleys full of forest. Camp at a fine spring, of which there are many in these hills. Rdn. with McC rode up to summit of "5 m. Butte" the highest point accessible from here, a stiffish climb for the horses but grassy & otherwise easy. Beautiful grass & flowers everywhere & fine though greasy Douglas firs upon the higher ridges, occasional sandstone outcrops. Magnificent views. Day hot, but not unpleasantly so & fine cool air on the ridges.

July 3 Cross Beaver Ck & up Saw Mill Coulee by very steep hard trail to summit of wooded ridge on the west,

then down, at first by a very steep & afterwards by easy slopes, to N. Fork of Old Man R., when stop for lunch. Distance by odometer 10.9 miles. Find the ford easy & drive southward to Middle Fork of Old Man, visiting Holloways Coal mine there & then camping at mouth of tributary brook now called Todd Ck. A thunder storm with heavy rain passed near us in pm., but did not catch us, though wetting the prairie near the Middle Fork & making the travelling heavy. A beautiful little camp. warm in the morning but pleasantly cool in the afternoon. The C. P. Ry people have last autumn, graded portions of a railway line up this Middle Fork valley toward the Crow Rest Pass. The banks & cuts of raw earth looking strange in the retired valley. Great wealth of prairie flowers everywhere. A number of locations have now been taken up by settlers everywhere & it is found that good crops, including

wheat can be grown everywhere in the foot hills at surprisingly great altitudes. Chinook effect. Very little complaint of summer frosts. Large bands of cattle scattered over prairie & hills but have scarcely as yet produced any appreciable effect on the grass.

July 4. Drive down to the saw mill, lately put up at confluence of Middle & North Forks, in search of oats, bread & to get a couple of bolts put in fellow of one of wheels. Had to ford the river & make a circuit over the hills to reach the mill. No oats nor bread but got the wheel repaired & examined a good section of drift deposits. Then drove up the North Fork valley. Managed to get some oats from a ranch by the way & also one loaf of bread. Stopped for lunch about a mile below the ford at which we had crossed yesterday. A traveller on horseback, from Beaver Ck, turned up & shared lunch with us.

In the evening another similar chance guest dropped in, a man looking for his strayed horses. Had just come from the mountains where he had spent the winter trapping, getting some bear skins etc. Now thinks he will stay to get a job driving logs down for the Mill.
After lunch crossed by the ford we had crossed yesterday & went on up the North Fork, arriving at upper Waldron Ranch at 5.30 Camped on the bank of the brook a couple of hundred yards from the buildings. After food went up & had a talk with the men about route ahead etc. They think we will have a rather rough road going over to Highwood.
Day very warm most of the time, occasional light cool breezes, but often very hot

July 5. Made enquiries last night about the route to Highwood River

to the west of the Porcupine Hills & got only very discouraging accounts of it. Set out this morning, however, to try to get through by that route. Found a hay trail running up Waldron Creek for about 7 or 8 miles, & got along pretty well that far, though having a couple of swell bridges which had been carried away, to reconstruct & soon then having to take the waggon over them by hand. After lunch, no trail. Made the best of our way up the valley, McConnell seeking a route ahead on the saddle horse. Had a good deal of difficulty in crossing some streams & coulees & part of the route very brushy, but on the whole made good though slow progress, camping some miles down one of the tributaries of Willow Creek. Very fine day, sometimes very warm, but on the whole cooler than yesterday.

July 6. Travel northward all day, & camps at 5.40 on bank of a small

rocky Coulée which flows into head of
S. branch of Highwood River. Very
rough going until the time was towards
hard grass. Fund crossings of numerous
little creeks, sometimes but without
difficulty, McConnell riding ahead as
before. At last, after lunch, meet with
a very muddy little tributary of Willow
Ck, when some time spent in grading
a way over & in unloading wagon
& portaging stuff. After crossing last
branch of Willow Creek, soon found
a beaten trail, having crossed the
trailers country safely, with only the
loss of a whiffletree, which broken this
P.m. Another fine day, often very
warm. See a couple of houses at a
distance during the afternoon, but
they appear to be uninhabited at
present, are perhaps winter huts for
looking after cattle when being fed
hay, which can be obtained in
good quantities in the numerous
swamps hereabouts. Fine view of

2

mountains & foot-hills all day & from camp can see the mountain which I named Sentinel mt. on the 16th.

July 7. McConnell set out on horse to examine western part of Porcupine Hills & to meet us at the confluence of the Midale & Main Highwood. Drove down the South Branch & eventually found a ranch at which got some instructions about trail. Followed these as well as I could, but got astray several times, & did not reach rendezvous, after drive of about 25 m, till 1 P.M. Very hot this morning. McC turned up shortly after. Later in afternoon, finding that we could not take the wagon across river at this place, crossed on horseback & rode up with McC 5 or 6 miles to a 'Coal mine'. Heavy thus side very strong head wind, with storm in the mountains, which, however, so far

as rain goes, never reached us.
Found the tool workings, & after a short
inspection set out on return. Wheeler's
Survey party camped on opposite bank of
river after our arrival here. Called in
on them in passing. Got back to camp
about 8 P.M., pretty well tired out.
Struck again by the beautiful clear
blue water of the Highwood.

Met a couple of Indians out hunting
for lost horses this morning, little changed
in get-up or appearance from those
we met three years ago. The same men
afterwards turned up at camp & produced
each a written permit from Indian
Agent Begg, stating that the bearers Little
Stud & Running Owl were allowed to
go in search of eight lost horses
in the Highwood Region.

July 8. Drove down to Ry. Station
& town of High River or Highwood
this morning, making out long divergence
from the trail to examine some clay bluffs
at the river. Sent telegram to Dr. Selwyn

stopped for lunch on N. side of river, one of horses making a diversion by getting into a mud hole, from which it was extricated with difficulty. In P.M. on to Fish Ck, where camped about a mile below the Ry. Station. An extremely hot offensive day & all the more trying as I have had a slight headache all day. A surprising number of little towns & settlers scattered over the prairie which certainly never seemed to me in former years to promise anything as an agricultural country. Crops put in, however, look well, but notice that a number of the holdings appear to have been abandoned.

July 9. Drive from Sheep Creek to Fish Creek, stopping there for lunch & afterwards drive in to Calgary, arriving about 2:30 P.M. Hot hot today, but southerly following wind & exceedingly dusty, nearly smothering us. Compared barometers with Standard, wrote letters & attended to

various little wetters. Country begins to look very dry as we approach Calgary, & though large areas under crops, the crops are short & not flourishing looking. The large number of settlers who have come into this part of the country for purpose of farming, is rather astonishing. Met a number of old acquaintances at Calgary, which has now become a very respectable town, with some fine show blocks which would do credit to any city.

July 10. Received a note from McEvoy this morning, another at Medicine Hat & showing that he went west by last night's train. Paid off Elgie. Got traps & down out to Hoff on N. side of Bow R., about a mile below the bridge, to see drift section there. Had intended going on to Morley by freight train in order to see the valley by daylight, but on enquiry learn that there is no suitable train today. Decide therefore to go west on the regular train tonight.

make another comparison of barometers, write up notes etc. Examine the cores obtained in the boring for gas made to depth of over 1400 feet some time ago. Seems to have passed through alternating shales & sandstones all the way, very much as might have been expected in the Laramie, with no notable or distinctive features. A few unios & other fresh water shells met with in the core. Cloudy this morning & has had appearance of threatening rain all day, but so far without result. Rain very much needed.

Toward evening a little rain fell & the temperature also became much reduced.

July 11. Boarded the train at 1.05 a.m., getting berths on sleeper. Travelling westward all day. Mr Connell got off at Revelstoke. Reached Kamloops at 11.30 p.m. finding Mr Gwyn at station as had been arranged, on his way to Victoria

to bring back our stuff which is stored there. Bright discussed matters with him before the train left. Joe Foster, whom he has already engaged, also at the train. Put up at Grand Pacific Hotel.

July 12. As McEvoy cannot get back till Sunday, find myself stranded with rather more time than I know what to do with & rather indefinite ideas about plan of work, which complicated by the necessity of working separately from McEvoy part of the season. Put Foster to work getting harness together & across the river, ready for starting tomorrow, also overhauling camp outfit. Not feeling very well myself, spent a rather lazy day. Evg. wrote some letters. Afternoon exceedingly warm, but evening beautiful with the usual fine display of colour on the hills after sunset — the remarkable blues & purples of this Thompson valley.

July 13. Overhauling various matters at hotel. Then to town, looked over stuff there & asked Foster to make an inventory of it. Horses being shod. Everything looks rather hard, having been in store house which was under water during floods. Dr Rim. got a rig & drove some miles up the S. Thompson valley to examine white salts. Results purely negative in so far as any trace of fossils. Got a few photos. of the bluffs. Eng. wrote to Anna, & to H. Abbott at Vancouver. A very hot day, ther 90° in the shade & cooling off but slowly in the evening.

July 14. Attending to various small matters more to pass the time than anything else, till Mr Sway gets back. Dr Rim. walk down a couple of miles along the river to reexamine junction of Coldwater Ck & Nicola Formations as shown on

map. An exceedingly hot day again & cooled off by slow after sunset.

July 15. Mc E. arrived last night. Also got a considerable mail of letters forwarded from Ottawa. Employed most of morning replying to letters, & discussing plans, afternoon & evening looking, reading etc. Another very warm day.

July 16. Monday. Eaton arrived this am. from Vancouver, at work all day fitting final arrangements made, provisions ordered &c. &c. &c. Compare barometers with mercurial this eve. & make all preparations to get away tomorrow morning.

July 17 Around town paying bills &c, & after the usual amount of delay & bother about closing up connections with Kamloops, get packed & off about

11 A.M. Here an audience of small boys & loafers opposite Mara's old store, where our things are, all intent on the process of packing our four horses which is not now so familiar an event as it used to be at Kamloops. Travel slowly, as the weather is warm & the horses are excessively fat & soft & must be gently broken in to hard work. Have to make a considerable detour to avoid fences, but eventually reach Jacko Ck. about 2 mile & a half above the lake & get to good camp about 3.40. All rather hungry & tired, having had nothing to eat since breakfast. Day not excessively hot, there being generally a pleasant breeze.

July. 18. Off early, cross the Ck & work along up it on the W. side. Being very thick & did not make very many miles, though did something to help in placing edge of granite more exactly. Got back to camp a little

before noon. Start again about 2 p.m., sending packs on by trail to make camp below Hughes' on Cherry Bluff Ck. Ride ourselves down through country to W. of Alkali Ck, not previously traversed, looking for data on line between Nicola formation & Tertiary. Disturbed pound Cariboo & did not reach camp till after 6 p.m. Pretty well tired out after light tours today in the saddle to which unaccustomed as yet. Day very hot again. Found a party at camp, with wagon on road, comprising Mr Graham of H.B. Co, Dr Kimball & others. Kimball has been out with them examining the Cherry Bluff Sam mine for some intending purchasers. Had a short conversation with him before they start for return to Kamloops. Camp on a pretty spot on bank of Creek

Aug 19. Spend the morning on hills to Eastward investigating Tertiary rocks. Very close & hot. Then decide to send

Camp on t near road crossing of Cherry Bluff Ck. Ride up on Cherry Bluff ridge t examine Iron mine, but struck the ridge too far east & had a rough time working along it t the mine. Splendid views of Knowlaps Lake. At the mine a heavy storm threatened & for a time a heavy wind, but only a few drops of rain. Find Camp tentively on another pretty spot on bank of Cherry Bluff Ck. Very smoky with light varying wind in the morning. Not so satisfactory a day as yesterday many points appearing blue mountains & difficult.

July 20. Sent the packers on t camp at road crossing of 3 Mile Ck. Wrote McE. down t Cherry Bluff siding on the Ry, & walk along the line some distance t westward. Back t road & then up & along hills t south of road, getting t Camp at 1.30 Pm after six hours. Pord of the time very hot & oppressive. Lunch

& spread a couple of trees in camp. Then at again for 3 hours up the Creek, getting back about 7 pm. Evening pleasantly cool with a strong breeze in the trees. Rocks on the whole very complicated & unsatisfactory. — Scarcely sure of anything.

July 21. Morning at work cleaning hills to E of 3 mile Creek & between the road & the lake. In P.m. moved camp, travelling to Sarona & then inquiring about any nice trail to Penny's, which our next point. Thus there is no bee-line trail & so how to climb up behind Sarona & take the mountain trail. Reach a place on Penny's Ck, about a mile back from the river which seems suitable for camp about 6.30. Very warm oppressively today. At Sarona see J. Jane, also Mr Marpole who is there with official car, apparently fishing. Strong wind & appearance of rain tonight.

July 22. Sunday. From 7 am till noon out along Thompson Valley & on hills to south of it, getting some useful new information & considerably changing local mapping. Pm., remain in camp, attending to various sunday chores, reading etc. Day not excessively warm, very fine. Evidences of a great 'cloud burst' in washed appearance of hills ridden over today. Had a hunt for fossils nr. camp in Pm., but without any success.

July 23. Left camp with packs intending to work down valley to creek which enters opposite creek from E. and of Semlin valley. Got along all right as far as we had explored yesterday, but beyond forced by cliffs, steep slopes & unimaginable gulches far up the hills & away from the river. When we at last struck the creek we were far away from & high above the river, & had been climbing very steep & extraordinary places up &

down for 5 hours. Stopped for lunch. Found that much of information wanted about E. Edge of Granite area had been obtained & that some time decided to continue across the hills to Barnes Creek, from which place same work to the South to be done & whence also the West Edge of the Granite may be determined. Got a pleasant Camp in good time near the "Forks" of Creek, two or three miles above Barnes Lake. Day fine & warm, but some thin clouds & haze about the sun, look threatening but clearing about sundown. Splendid views over the Thompson valley & mountains adjacent, making us regret that cannot afford time to stop & take some photos.

July 24. out all the morning from 7.30 to noon with Joe, riding over & examining the angle of country between Barnes Ck & Thompson to N & E. A rough tract with a great descent through ravines etc from level of Camp to that of river. McEvoy out meanwhile to South of Barnes Ck, looking

after missing points in Tertiary-granite boundary. Rlm., moved Camp, travelling to Barnes L. & then down along Thompson Valley. Camp eventually in the mouth of a little gulch opposite Oregon Jack's Creek, in which a little water remains & there is some wood. Some difficulty in finding a Camp, but this appears the well situated for the work in hand - I.S. the Examination of the Cache Ck - Nicola sect. on this side of River. Send for Foster from Barnes L. in to Ashcroft with telegram about mail & orders for a few things needed in Camp. He was to follow down the valley & rejoin us at Camp, but has not turned up & cannot imagine what has become of him unless he may have missed his way among the many trails & tracks along the wide valley. Still he should have been able to follow tracks of our shod horses if once he found them & this he could scarcely fail to do.

July 25. Joe did not turn up at all last night, & as he did not appear this morning, began to think that something must have happened to him. Thus instead of going out to work, sent McE. toward Ashcroft to look for him. About 10 A.M. Joe turned up, having missed the camp & been wandering about late last night & early this morning in search of it. Had spent the night in a Chinaman's ranch on the hill. McE. got back before noon, having been to Ashcroft, bringing mail. Got away at 1 P.M. & spent till 6.30 on the hills to the northward, finding some unexpected & puzzling geological developments. Day windy & cool with a few light showers.

July 26. Work southward along valley to point about a mile south of Spatsum Station, examining the rocks as closely as possible & zig-zagging along the steep slopes. Very bad slow rough going, gulches & rocky & bouldery slopes. Manage

however, to make some very important changes in general idea of section & find some probably Triassic fossils in one place. Did not get back to Camp till after 2 PM, having been 6½ hours on the go & part of the time very hot. In Evening McE. made up Eastward on hills a short distance to settle boundary of granite there. I had a search for fossils in some limestones & argillites near Camp, but without result.

July 27. Travelled back along valley to Ashcroft & down to ferry which has lately been substituted in place of bridge which entirely washed away last spring. The ferry is run on a wire rope & is a scow of indifferent construction. Water extremely swift & rough & altogether a very risky looking affair. It is a free ferry, provided by the B.C. Govt., & much of its business apparently consists in transporting Indians of all sexes & ages across the river. Three rather dangerous trips got all our stuff over, & very glad to have it

safely crossed. Got packs on again & left about 3 P.M., travelling southward on road to near Jack's Ck. Camped in the mouth of a small gulch down which an irrigation ditch is led. Day pleasantly cool & airy, & camp rather a picturesque one, looking out between two little rocky bluffs on wide valley behind Red Hill.

July 28. Kept awake from first daylight by numerous mosquitoes. The horses having rambled far, did not get as good a start as usual. Travelled a couple of miles up Jack's Ck & then turned off to southward, climbing gradually but steadily a long ridge which we had seen from other side of valley leads to highest part of Cornwall Hills. Day cool & overcast, but travel slow. Camp eventually taken elevation of about 6000 feet & near the highest point of the hills. After lunch rode out on the hills & spend some time comparing maps etc. Very cold north & cutting wind

on the summits. The prof. boundaries about which I had been in doubt, seem correct here & feel almost something like disappointment & find that we have come so far & no changes necessary. Glad to return to fire at camp. See a number of grouse during day. The summits of these hills characterized by the usual bare verdant slopes & scattered trees in the hollows. All the usual alpine conditions.

The horse Eaton was riding, on getting into camp this evg., became in some way entangled in the saddle which he was taking off, & made quite a circus for a short time, breaking the rifle which was attached to the saddle, but fortunately not materially injuring the saddle, or hurting any one.

July 29. Sunday. Horses strayed again this morning. When they came in, went again to summit with the camera, but mountains badly clouded up & occasional

light misty showers & wreaths of mist sweeping over this mountain. Left the Cameras on the summit & went with Mr E. to near point where good outlook over country to the west. Then rode a short distance northward, but going getting very bad, returned. In Rev. spent some time on the summit getting Photos. from this very commanding position. Mr E. remarkable devoting himself to collecting butterflies. On the whole rather an idle day, but our stiff knees seemed to suggest a partial Sunday.

Hobbled a couple of the horses by the hind feet tonight to prevent their travelling too far. Saw a deer & two fawns today. Also a little band of wild horses, some of which inhabit this region.

July 30. Travelled down the mountain by same route we had ascended & found it took about as long. Then on to road crossing of Oregon Jack's Creek. after lunch examined

rocks southward along road to opposite Spotswood Station. Got back to Camp at 6.30. A fine day & not too warm

July 31. Passed rather a disturbed night. Horses stampeding, necessitating Joe's getting up & going after them. This morning Joe insists that some Indians who passed during the night had taken & used one of our horses, though all on hand now. Sent packs on to mouth of Bonaparte & rode round between road & river with McE., examining edge of Cretaceous rocks. In Pm, sent packs on to Eight-mile Ck & rode round to same place by river — a very rough rocky route. Did not get to Camp till 7.30 Pm. Day fine, but very warm during part of Pm. Must have travelled over 20 miles today & with delays in examining rocks etc kept in the saddle practically all day.

Aug 1. Leave camp at 7.30. Down to mouth of Eight Mile Ck, to look for diorite & edge of Tertiary there. The stream cuts a narrow & very wild looking gorge to the river. Then back to road & spent the rest of morning in steep broken hills to North, outlining granite veins etc. Found packs for lunch at the spring 4 m. west of Deadman R. A sweltering hot day with little or no breeze. In pm. travel with the packs across to Deadman river & then up the valley, camping at 5 Pm. on old spot where we had camped in Autumn of 88. A very pleasant camp beside a running stream, in which S had a satisfactory bath before supper was ready.

Aug 2. Set out with McE. at 7.30, intending to spend the morning investigating the northern end of Conglomerates as marked on the maps & move camp in the afternoon. Up Cris Creek on the South side, climbing far up the mountain slopes to avoid lateral gullies.

Soon became evident from the extent & roughness of the country that work would be unsatisfactory unless more time taken. Decide therefore to go on as long as necessary & give up idea of moving camp today. Turned down into the deep valley & found a great deal of difficulty in getting across the Creek owing to thick brush & windfall. Then follow up north side & eventually climb to the main trail, returning by it to camp. Get back to camp at 4.20, pretty well fagged out & hungry, having had nothing to eat since early morning. A good appetite for lunch or supper whichever it was & afterwards a refreshing bath in the Creek. Today very hot, though not I think quite so bad as yesterday. Very fine, but barometer has fallen considerably since morning.

Aug 3. Decided to endeavour to save a little time by crossing the hills direct to the head of Copper Ck, instead of going round by the Deadman R. valley. Climbed

from Camp & got down without any great difficulty. Left Camp at 7.30 & got to Worth's Copper Ck at 2 P.M. Day fine but hot. Camped on the Lake Shore & soon visited by Redpath & McCartney who are interested in the Cariboo & other claims here. Spent the remainder of the afternoon & till 7 P.M. going round with them & visiting & examining the claims. Supper on the beach while the hills across gradually turning from purple to grey McCartney coming in & rather monopolising in an even flat tone on various rocks & prospects

<u>Aug 4</u>. Slept very little last night for some reason unknown, though the cultured head in early part of night may have had something to do with it. After breakfast borrowed a dug out Canoe belonging to Redpath & spent some time with McE., closely examining rocks along lake shore about here, the locality being a critical one. Back to Camp, & after an early lunch set

out for Savona, crossing at outflow of lake by ferry which has been reestablished since the bridge was carried away in the spring. Camped about 1/4 m. from railway station in shade of trees on a wide beach. Telegraphed to Kamloops for mail & to Ashcroft for places on stage on Monday. Unloading stuff & selected what wanted for trips which I now propose making to Horsefly, McE. returning to Kamloops & going on during interim with work to the Cariboo that place. Another very warm day. Stopped on the trail this pm. long enough to take a few snap shot photos. of the little pack train.

Aug 5. Sunday. up at usual time & after some little delay Mr McEvoy got off for Kamloops with horses & Joe Foster. To hotel at Savona (Ferguson) with Eaton. Writing letters most of day. Long tedious wait in the evening for the train from the East.

Aug. 6. Train arrived on time at 1 a.m. Got on board & arrived at Ashcroft 2.20 a.m. Told that stage would start in a couple of hours & so we prospected my sleep, arranging about fares, extra luggage etc & looking about hotel, where we could get no breakfast by any sort of early. Cross the river in a row boat, several trips being necessary. The ferry disabled. Get away at last about 6 a.m. Mr Hammond of Forest away the passengers as well as several mining people on way to Cariboo. Travelling all day steadily, stopping for the night about 7.30 P.M. at the 83 Mile House. Seemed a very long day, not having had any sleep since yesterday morning at 6 a.m. A fine cooleish day, turning quite cold toward evening in the green timber plateau.

Aug 7. Up very early & travel all day on the stage, having a bad time with two lots of used up horses on the

road. Heavy rain nearly all the morning. Reach the 150 mile house about 10 P.m. & stop there for the night.

Aug. 8. Leave the 150 m. house about 7 A.m. on the Lillooet stage wagon – a species of truck-board, which runs in to Quesnel Forks. Mr Hobson with his wife & child start some others, for the same destination. (Hobson is manager for the Cariboo & Horse Fly mining Cos.) Took a lunch with us & stopped by a creek on the road to eat it. Got to Gang's at Beaver Ck about 6 P.m. The 'road' is scarcely worthy the so called. A track, full of boulders, roots, mud holes etc. First part travelled over today very soft & wet owing to recent rain. Extremely fatiguing travel bounding about on a slippery seat over the rocks. Gang has an old settler here & has a sorry caravansary full of China men, Indians etc. Dirty & untidy to the last degree.

Aug 9. Got away from Gay's about 8 a.m. in same order as yesterday & went another lunch. Reached the Cariboo Hyd. Co's. Camp about 3 P.m. Mr Hobson arrived shortly afterward. Went with him & Mr Hammond to examine the hydraulic pit of the old Quartz Lode Co., joining the Cariboo Co's property. Having spent a lot of time changing plates & trying to get the Stereo Camera in order with Mr Hobson's help.

Aug. 10. This morning to the Cariboo hydraulic pit at W. or other end of the property, on Dancing Bill Gulch. Spent the whole morning there, taking photos, examining the formation etc. Mr Hobson had the water turned on for a short time from a dam or reservoir on the ditch enough to let us see the working, though the pressure was very good. The ditch was yet not completed to Polley's Lodes, where a good & permanently continuous water supply supposed to be assured. Got

back to Camp about 1.30 P.m.
In P.m. took photo. of face in old South Fork Claim. Then our with horses. Hobson & Hammond to the Forks of Quesnel by the road — Four miles. The Forks a pretty little village as regards situation etc, but rather dilapidated at close quarters, almost rivaling a Chinese town. Back to Camp at 7.30 P.m. Spent lunch by going with the Doll boys, which took from away again & in changing plates in other Camera. A very hot & fine day.

Aug. 11. Get away about 11 a.m. Self driving in light rig with Mrs Hobson. Mrs Hammond on the Stage wagon, Eaton riding. Stop for lunch by the way & reach Guy's about 5 P.m. Some experience by bumping over this very rough road. A fine day & pretty warm.
Mrs Hobson has brought along a man & a couple of horses to take us in to the

Hanesby mines & has also sent in to the mines for a couple of horses from there, which are now here at Guy's.

Aug 12. Get a small pack made up & start ahead. Follow at 7.30, riding along trail toward Hanesby. Self, Hobson, Hammond, Eaton & Hobson's man Jeff. Keeping track survey in. Stop at Antone Ck. for lunch, about an hour in all & eventually reach Hanesby Camp about 5 P.M. Trail good trail all the way in & much of way very good. After supper went down & took a preliminary look at the pit. Fine day, not very warm. One light shower. Numerous thunder storms passing over the hills in various directions.

See a number of dead rabbits along the trail today. They are very numerous this year & the usual plague seems to be attacking them. They appear to come out on the trail to die by preference, whether for warmth in the open, or for the bare dusty ground hard to say.

Aug. 13. Spent the whole morning examining & taking photos. of Expenses in vicinity of hydraulic pit, found a few plants & one or two insects & ~~for~~ spent some time searching for more. Afternoon with Bissett, one of foremen, to Thompson Claim & examined tunnel 1200' long. Then prospected gravels near the reservoir lake, with Bissett, finding numerous colours in surface stuff. Mr Hobson out on the work all day.

Aug. 14. With Messrs. Hobson & Hammond all day, riding to head of ditch & coming back by Harper's Claims. A ride of about 25 miles, taking from 8 am to 7 P.m. Lunch at the Sawmill Camp. A very fine day & a pleasant ride with much of interest in connection with the placer problem. Decide to postpone leaving till day after tomorrow in order to have more time to examine all conditions here.

Keekwillie Houses. Are remains of these at Lake La Hache & also on Beaver Creek, near junction of Skunk Ck. Also informed on good authority that many such traces on Quesnel Lake, not far from outlet. The latter fact remarkable for Quesnel L. is now in Carrier Country. Not known that the Carriers ever made these underground houses. Unless therefore beliefs have changed, Quesnel Lake must at one time have been in Shuswap Country & the Shuswap border must have been narrowed.

Aug 15. Crossed the river in the morning & examined rocks there. Then to a ravine about half a mile from the mine. Run. Further examined pit & spent some time getting fossils, though very scarce. Evening packing stuff, etc

Aug. 16. Got away at 7.45 & with Holman Hammond, Edson & Jeff. rode back to Guy's, getting in about 5 Pm. Day not excessively warm. Partly Clouded. One light shower. Passed some 40 or 50 men strung along the trail with packs who had been paid off by contractors at Horsefly Claim & are on their way in to work on the South Fork mine (Cariboo Mng. Co.) They were making pretty warm work of it with their loads, but are now comfortably camped on the river bank here at Guys. Guy's house as full of flies as ever & that is very full. Settled through Guy for Indian pack & riding horse which I have had in at Horsefly.

Aug. 17. Left Guy's early in light-stage waggon which we had arranged that the N.P. express Co. should send in for us. Drove out to main road, undergoing an intolerable amt. of bumping & friction by the way. On reaching the main road back along it a couple of miles to the 158 ho. ("Carpenter's Nut") for a change of horses. Driver then stopped a short time at 150 m. ho, changing drivers & stages & then on to the 108 m. ho, when arrived quite tired out—at 10 P.m. Supper & to bed.

Aug 18. Up at 3.30 & off at 4.20 a.m. Cold fine morning with a little mist in the valleys. Sun gradually appearing & warming up the air as we proceed. Drove on to Clinton for dinner abt. 2 P.m. Saw Mr Foster, also Mrs & Miss Foster & Miss Cornwall. Also Jones. On to Ashcroft, when we arrived at about 8 P.m. Crossed the River by a new ferry scow, which was large

Enough to take the Stage horses & all are a great improvement on the last. Turned in for a short sleep before the train due at 2.25 a.m.
Arranged for Eaton to return to Kamloops by the 12.30 a.m. train. Mrs Hammond goes on to Vancouver while I have decided to go to Nelson Bend for Sunday, having telegraphed to have mail sent there (from 108 m. by) & then to return to Lytton to see Van Winkle Hyd. mine on Monday.

Aug. 19. Left Ashcroft by train 2.25 a.m. & arrive at Nelson Bend for breakfast at 7 a.m. Met Major & Tatlow on way to Vancouver from Lytton. Got mail & occupied rest of day answering letters etc. Found a linen closet, which managed to make into a dark room & changed plates in Camera. Left by 8 Pm Train for Lytton, where put up at Mc Knight's hotel. Found Mr. P.M. Burton

from Vancouver at the Hotel. A very
clear sultry day at North Bend.
Aug 20. Crossed the river with Mr Buxton
& as the wind did not serve
for sailing up, had to walk about
two miles up the west bank to the
Van Winkle mine. Spent nearly the
whole day examining & photographing the
mine, then back down the river by boat.
Met Mr H.E. Newton, one of the
proprietors, who is living at the mine.
In evening saw Mr Bowie, the
postmaster, who has Monroe's collection
of Indian objects from graves near
Lytton. Looked over them, but found
much less of value than I had supposed
from Monroe's account. Left by the
9.45 pm train for Kamloops, finding
Mr Hammond on his way down on
board. Another very hot day, though
with strong wind, filling ears, eyes &
clothes with dust – particularly about
the mine.

Aug 21. Arrived at Kamloops between 3 & 4 a.m. To Grand Pacific Hotel & turn in for a second sleep. Find McLory here in reply to my telegram. Spend wed'y day looking after outfitting etc. Day very hot & sultry, partly clouded. Slight wind & dust in the morning.

Aug 22. All day at Kamloops, quite busy looking after various affairs connected with outfit & arrangements. Surprising how many matters seem to need attention & how long it takes to get them done. Another very hot day, over 90° same every. Going pack up & then lie down for a nap before the train time.

Aug. 23. Up at 3 a.m. & to train at 3.30. Travel to Duncan, about 20 miles, & leaving stuff in station, in charge of no one in particular, set out with McLory to walk along track to Camp, about 2 m. beyond Ducks. Find Hamm, Eaton, Joe Foster &

Indian Trail there. Worrying all night. After early breakfast sent pack back to Station for stuff. Then set away & travel clay road to point near the river 1½ mile above Watin's home. Ran out along the hills south by river for seven miles. Feeling a little dull all day pain worst by proper sleep last night, added to the hot heavy & deadly smoky character of the air. Can scarcely see half a mile in any direction.

Aug. 24. Off at about 6.30 am with McE. & spent all morning on hills to south. Back to camp 11.30. Lunch & leave with packs at 12.40. Travel along road to Shuswap Station & then across by trail to Chase's Ck., about two miles S. of Thompson Valley. Stop at Shuswap Station for a few minutes & tell Station master to expect canoe she consigned there. Leave note for Mr Graham, HBCo at Kamloops, asking him to forward supplies next wednesday. Air extremely smoky all day & very sultry in Ran. Road

a perfect mass of silty dust, very unpleasant for travelling.

Aug. 25. Off early & travel with packs up E. side Chase Ck valley, following a sort of irregular trail. Camp about six miles on & in Rem. for out on hills to East, while Mc E. took W. side of valley. Back to camp at 5 Rem. Day rather warm & still very smoky, though somewhat better than yesterday. Very unfortunate as it spoils views of hills & renders information obtained much less satisfactory than would otherwise be. Country about here very brushy & bad & hard to get about in.

Aug. 26. Travel on up the valley some six or seven miles of a dim & crooked trail. Camp where the trail crossed the creek, & lunched rather late. Then set out a couple of miles to Westward with Joe, getting sketch of hills etc. Mc E. out to Eastward, examining ridge which runs in that direction to see if

passable as a route toward Salmon Arm of Shuswap Lake. McE did not get back till nearly dark.
all the surrounding country full of fires.
Aug 27. Waked very early by one of horses passing through camp & taking the back track. Fortunately he did not get very far before he was turned back. Set out to climb & travel along the ridge spoken of yesterday, which runs parallel to the N. side of E. Branch — slate pavellers — of Chase Crk. Stops early for lunch at a small spring curiously situated near the crest of the ridge. This McE had found yesterday. While lunch preparing I climbed to crest of ridge. Rex continued following ridge, but gradually forced down by bad going till decide to try for probable trail in bottom. Find a dim trail & make fair progress along this up the valley. Camp not far from head of valley in a region of burnt lampsikes. Took a short turn beyond camp with McE. before unsaddling. Going

ahead looks rough with dead timber but I think we shall be able to push through. Signs of deer everywhere & toward dark Eaton & Frank go out with rifles, but without success. Looked like rain this pm. but signs unfortunately pass off. Smoke, however, considerably less dense. Worst local fires appear to be to the W. of us.

Aug. 28. Leave camp at 8 am with Joe to ascend mountain selected yesterday. McEvoy off at same time with Eaton to examine ridge to South. Find the going very slow & in places very bad, & the distance greater than had anticipated. Did not reach the summit, about 2000' above camp, till noon. Got sketches & such information as possible in the smoky condition of the air — worse than yesterday. Then back to camp, getting in at 3.40 when had a late lunch. Suffered much from

black flies, which exceedingly abundant in this valley. Mountain would have afforded a very fine view but for the smoke. Eaton & Frank off again this evening looking for a deer.

Aug. 29. Travelled up the creek valley, finding unexpectedly good going through burnt country through without any trail. Stop for lunch at head of valley at a little water hole in morainic country, being opportunity that no water for a long way ahead. Find, however, plenty of water at intervals ahead. In afn. got into rough country with burnt & green timber. No trail. Found a good many sticks to cut. Found a small sluggish stream flowing through little meadows to the eastward & followed this down till it became canon like & so steep & rocky as to be impassable for horses. Forced to camp on a narrow little patch of flat at 4.30. McE & one of men go ahead to prospect for trail.

Camp situated near a granite rock-slide tenanted by the little chip hare which every now & then cries shrilly. Horses rather unhappy not liking the steep crowded slopes with scanty grass.

Aug 30. Climb out of Cañon by a very steep but practicable little track made last night, & continue descending to eastward away from the creek altogether. After going through a little piece of thoroughly burnt woods, get into very bad country, burnt timber, fallen sticks & green timber full of brush & down trees alternating. Chopping & banging through this all day without finding water or any feed. Descending gradually into a sea of thick smoke & afraid that we may run into a forest fire which would not only turn us back but might be very dangerous. Day fortunately very calm & not very hot. Would have a good outlook from some points, but smoke quite shuts us in & renders it impossible to say on what side of Salmon Arm stn.

we are coming down. At 4 P.M. Eventually get back to the side of Warning Creek, & take packs off on a high point amid burnt logs, nearly all blown down in a tangle. Creek 200' below, down a very rough steep hill which it is impossible to get the horses down to water, though they can clearly hear the water rushing below them. All hands very tired & hungry. Eat something to eat & tea & then turned out again to cut trail ahead parallel to creek in hope of getting way down for the horses to water. Returned at 6.30 without having succeeded in doing more than opening a short distance ahead for tomorrow. Can clearly hear the trains passing & whistling in the valley below, but the barometer shows that we have still about 2000' to go down & it may be an all day job. We may have made today in all about 3 miles. Bivouack without pitching tent on a little flat graded out with the hammer between the sticks. Horses legs all badly bruised & cut with jumping & struggling

through & over logs, for lots a minimum of chopping done in each case.

~~Saturday~~ Aug. 31. Mr. Sowry with two men go out to chop trail ahead & did not return to camp till 2 P.M. Long before this I had begun to be very anxious about them, fearing some accident; but fortunately nothing worse than very bad down timber. Working all the time they had made only about a mile, ending in the bottom of a branch ravine to the one we have been on. Much inclined from their account, & from the constantly thickening smoke to turn back, in fact only deterred from doing so by fear that we could not make back to former camp before dark. Set out as soon as we could & travel easily along cut trail to edge of ravine. Then had to lead the horses down about 300 feet over a very steep rocky slope to bottom of ravine, each pack animal being held

back by a rope. Heard to restrain the horses from breaking down as they saw prospect of water. As they did not drink yesterday morning on leaving camp they have been 36 hours without water & practically without feed. By turning them across the ravine here, get them onto a side hill with some scattered "pine grass". Forced ourselves in the bottom of the ravine in a regular hole, with a little brook running over granite masses in the bottom. Graded out five little benches, each in a separate place, on which to sleep & piled drainage, on logs etc wherever we could get it out of the way. Tole straight cedar growing up from the bottom of our gorge. Devil's club, hemlock & other damp or Coast Climate plants. Moss covering everything.

Sept. 1. Rather late in getting away, Camp being dark, exceptionally so owing to the thickening smoke. Men tired also from very hard day yesterday. Each animal had to be led into

camp separately, packed & led out & tied up somewhere, quarters being so confined. Found the pony unexpectedly good on getting out & made fair progress, a little coaxing here & there. Got down onto flatish bench country & struck a few belts of tangled heavy woods etc but went of route good, over old burnt country. Delighted at length to strike a trail, & after following this a short time found members of the Indian village of Wanta on Salmon River, finally settling the question of our whereabouts & what Creek we had been following, which for the last couple of days had given rise to much discussion, it being utterly impossible to see out in any direction. Stopped for lunch, buying a fresh salmon from the Indians, who have large frames of them drying. Travel on toward Tappen siding in Rain, following shore of lake & camping on the beach about a couple of

miles from that place. Harries seems not to know what to make of the open spring after this late experiences. Smoke has been intensely thick all day, giving quite a twilight effect to everything. Calm weather continues, edge of lake so far as we can see it quite glassy. Barometer seems low & some hope of rain.

Sept. 2. Sunday. Some light showers during the night, the first for a long time! Air considerably clearer in the early morning & before we left camp the smoke & mist lifted completely away & enabled us to see the surrounding mountains again. Heavy showers with thunder trailing over some of the higher country during the day. Travel on to Tappen Siding, meeting some difficulties between the boggy lake shore & the line of railway. Then on to Saw-mill, where stopped for lunch, getting some bacon & enquiring about trails. Leave Rev. about 6 m. westward up the Skim-i-kin or Turtle valley to camp. Intend

Examining hills to north & south tomorrow.

Sept. 3. Off about 7 a.m. & out till 1.30 p.m. on hills to north, with fox. Got a good view from summit of ridge about 2300' above camp. Air fairly clear & lower part of Stuswaps lake etc spread out below. Saw three fine deer, but no chance of a shot. Return to camp & find McE., already back from S. side of valley to E. of camp. The outlook being so good, decide to occupy peak to north as transit station tomorrow if weather favourable. In Rem, McE. off to examine S. side of valley to westward, but returned without having been able to get across. – Swamps. Self in camp, overhauled sextant. Took a couple of photos. of valley etc. Day has been rather chilly, with a good deal of wind & sun more than half the time obscured.

Sept. 4. Raining & low clouds all day. Quite impossible to do anything on the mountain which had selected as transit station. In & about camp. A very long tiresome day.

Sept. 5. Some rain in the night & everything covered with fog this a.m. Seemed little or no prospect of occupying mountain, but still hopeless so pack up & travel on to Trail or Hazel Ck., Camping at trail crossing. Rain during the morning & woods very wet. Run showery & wt sufficient time left for Examinations in neighbourhood.

Sept. 6. Off at 9 a.m. down valley of Trail or Hazel Ck, while Mac E goes East along S. side of old E-W. valley. Back to camp before 1 p.m. After lunch get packed up & travel on back to Shuswap Station. Find a rather pleasant camp on green willowy flat half a mile above the station. Wet fairly dry but lately overflowed. Day fine, though clouding in p.m.

Sept 7. Up to station & delighted to find that canoe, canvas boat, provisions & other things ordered are here all right.

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Mail did not arrive, as telegram sent last night did not reach Kamloops in time. Got the canoe out of crate & spent most of morning with Mc E. putting it together. Am, launched canoe & got most of stuff brought down to camp in it. Mc E then went up river to village at Little Lake to look for Indian we had hope on Adams Lake. Was unable to find him, but found another lately man who volunteered for the trip.

Sept 8. Mail came in this morning. Spent nearly all day overhauling, dividing & separating out stuff, arranging & graduating sounding lines for letters etc, etc. Celio wrote a number of letters. Took stuff which we do not need at present up to station & got all ready for start to Adams L. tomorrow morning.

Sept. 9. Up soon after daylight & as soon as breakfast over swim the horses across the river & then take the stuff, saddles etc over. Return our canoe to Mc Bryan's charge, on S. side of river. Get horses

packed & start at 9 a.m. Stop for lunch at head of little Sturgeon Lake then on to foot of Adams Lake, arriving there about 5 P.m. Received warm acclamations by a few old partbreed & primitive Indians residing there. The old Chief ( ) who seems to be the genius loci, recognising me & talking much in his own language about my former trips on the lake & over the mountains to the East of it. He has no knowledge of Christ & Communion thus limited. Another beautiful day. McLeod's man turned up about dark with a friend who knows the trail across to Seymour, has a couple of canoes on lakes there to sell & wants a job. Complicated arrangements to make not previously contemplated.

Sept. 10. Got McLeod's stuff separated out, canoe – none too large – loaded, horses packed & set out simultaneously at 8:30 A.m., we on return to Sturgeon, McL up the lake. Got back to river bank opposite Sturgeon Station at

4.30 p.m. & after some shouting & waiting induced two boys to bring a canoe over. Swam the horses over & crossed the stuff to old Camp. Two of the horses refused to swim at the first attempt & had to be towed over after the canoe on a second trip not without difficulty & possibly a little risk to the canoe as they acted very badly in the water. Another very fine day, but sorry to see the air becoming somewhat smoky again, with light Easterly wind.

Sept. 11. In station a find that supplies ordered from Kamloops have arrived. Look out the Canvas boat. Purchase a few needfuls at Mr Bryans. Get the whole down to Camp. Then send saddles & rigging to Shaw's in Canoe. Shaw is keeping the horses for me in pasture while away. Cloudy all day & strong wind rising about noon from SW or W. Probable that McE will be delayed by it on Adams L.

as it was evident that nothing could be done in sounding Little Shuswap Lake, did not hasten departure. Got away about 2.30 P.M., up river & along lake shore to near Ross' at S.W. angle, where camped about 5 P.M.: on way up river examined an Indian burying ground which had been described to me. It is falling away in the river bank (S. side) & partly a couple of skeletons exposed, but skull of one which I tried to dig out was all broken up. Could find no implements, though these have been found here. Spent evening in getting gun etc in working order. Wind appears to be dying away & sky clearing. All the rather complicated arrangements for the lake trips appear so far to have worked remarkably easy, everything turning out right in an unusual way.

Sept. 12. Morning unpromising. Clouded, some wind, low barometer. Manage to get a few soundings on two lines across Little Shuswap Lake & to examine the rocks where

needed. Then about half way up the river connecting the lakes, when heavy rain coming on, stopped for lunch, putting up the fly. Rain continued for some time, but appearance of clearing induced us to remark. Camped in bay just W. of mouth of Scotch Ck. Several heavy showers in P.m. & day altogether very wet, cold & miserable, with squalls of wind accompanied by rain. Some appearance of clearing tonight. Curious to observe the clouds settling down on mountains to eastward with westerly wind, rain commencing there & then working back to windward. See a number of Indians camped here & there & some canoes that I had supposed to be on the lake. The Indians here just completed their salmon fishery brushwhs & some of them are moving up to head of Adams L. & to 'Seymour' to continue salmon fishing, which is later at these places.

Sept. 13. Disturbed somewhat during night by a skunk which persisted in loafing about camp. Night nearly calm, but wind sets up with the sun, & though fair, rather too strong.

Examined N. shore Eastward for about 8 miles, taking plenty of time in hope that wind would fall. Stopped for lunch & waited some time as it became necessary here to make a line of soundings across the lake. Wind went down sufficiently to allow this about 3 p.m. Then along the S. shore for a couple miles to camp. Barometer rising. Night very fine & calm. Rather cold. In hopes of a calm day tomorrow. Somewhat encouraged by finding that the rocks seen so far appear to fall pretty naturally into new classification. Need to toil a good while today, but seem a pile.

Sept. 14. Disappointed to find everything dark & cloudy this morning, though calm. Soon after starting, drizzling rain came on & clouds settled low down upon the mountains. Stopped early for lunch & stayed ashore for about 2½ hours, while several heavy showers in progress. Eventually induced to set away, but rain immediately began to set heavy again & continued throughout Pm.

becoming heavier & worse till we
eventually camped in a regular downpour.
Altogether a most unpleasant day & pleasing
to find that in the past three days I have
done scarcely more than one good day's
work. Caught a couple of fair sized trout
today which formed an acceptable addition
to supper. Now dark, quiet & not
raining.

Sept. 15. Another skunk perambulating about
camp last night to our great apprehension.
Raining nearly night & drizzling this morning
when camp astir, rather late. Sky threatening
looking that did not move camp till after an
early lunch, when apparently clearing everywhere.
A few showers during Rem. return tramping
& one very heavy one after we had got into camp.
Camped on S. side of Cinnamonsum Narrows.
Saw a couple of porcupines together on the
beach today. Mountains centre heavily
shrouded in clouds about heads of Sequoia
& Mt. Arrus making a cold & gloomy
outlook in that direction.

Sept. 16. First day on this trip in which we have not had any rain! A remarkably fine day, lightly overcast, but clearing & sun shining much of day. Got in a long day's satisfactory geol. work along shore southward, making about 10 nant. miles of shore clearly examd. & camping opposite Sicamous on W. side of lake. Also got a few soundings. Plenty of new snow showing on distant high mountains now that there are showers again & becoming visible. Camp equipage, boots etc gradually drying out all day.

Sept. 17. Heavy rain & wind in the night & continued this morning, rendering it evident that nothing could be done along shore. Stopped raining for a while about noon, but wind continued & rain soon again set in, keeping up all the afternoon & on into the night. A very long day, with nothing going on but the continued plashing of the waves upon the beach. Spent the time as best I could, chiefly in reading over a lot of old newspapers received at Shuswap station.

Sept. 18. Evidently clearing this morning, with rising barometer, but clouds everywhere adhering to the hills. Day, however, turned out a splendid one, without rain & with very light winds which did not interfere at all with work. Went on with close examination of W. shore of Solomon Arm, camping not far from Cliff Pt. of 1877. Day's work very satisfactory geologically & got several soundings also in the middle of the lake at intervals.

Sept. 19. Dense fog this morning, rendering it impossible to get photos. of Cliff Pt. etc as had intended. The cliffs here really very imposing as one passes under them. Completed examination of W. Shore of Solomon Arm & got a number of soundings in extended part at end, which took some time. Stopped for lunch at Wellard Pt, the same point at which I camped in 1877 & which I then so named. Then across to Solomon Arm station, but could get no nearer than the edge of a mud flat about quarter of a mile away. Took off boots & wallowed

ashore & back through about a hundred yards of soft mud — so soft in places as to make one fear being engulfed altogether. To the station & telegraphed for mail to be sent to Seamans tomorrow. Then to Mr Jones's store & got a fresh supply of some provisions of which we seem likely to be short. Camped on E. side of Solomon Arm nearly opposite last night's Camp at Cliff Pt., & a stone's throw from the railway line. Day very fine & calm, but we shall sharp shower in the evening & the barometer going down again in an unpleasant manner. Took a few photos. at Mellard Point. Got into camp when nearly dark tonight, though working no great distance all day.

Sept 20. Cloudy morning with rather strong head wind & swell, but got away & before noon managed to work more than 8 miles along shore; I walking part of way on track to see rock cuts there. At noon stopped for lunch. Rain beginning & after sheltering some time under the fly, decided to camp at

3 Rem. Rainy in torrents all the afternoon & on into the night & cold as well. Just as we were having warming camps a tramp working his way along the Ry. line westward appeared & asked leave to cook his breakfast at our fire. He struck us too late for breakfast, but was a most legitimate looking individual.

Sept. 21. Morning very dark, calm & drizzling & barometer very low again. Pack up & travel on along shore to Sicamous, examining rocks by the way. Weather turned to very heavy rain & we arrived at Sicamous in a sopping condition. Got mail, which had been forwarded from Kamloops. Among other letters one from Dr Selwyn in which he expresses the wish that I should return to Ottawa as soon as convenient, the reason being that he contemplates asking leave of absence to visit England. This changes my plans considerably & I regret that I cannot have another week to complete investigations along borders of

Kamloops & Shuswap Sheets.
Send telegram to Dr Selwyn, saying that I must go to head of Lake to meet McEvoy, but will then as soon as possible return to Kamloops & start for Ottawa, probably reaching Kamloops about Sept. 30. Write at greater length to the same effect. Also write to Foster, acquainting him with the change, & also to Rankine & McConnell.
It appears to me to be quite probable from all I can hear that Dr Selwyn's intention may be preliminary to his resignation of directorship of Survey & my interests would seem to require me to be in Ottawa, but decide that the present trip & meeting with McE. must if possible be carried out as arranged before I leave. Must for one thing arrange with McL. about his further work, & for another straighten out accounts, furnish him with money etc.
Sept 22. Send off a small box of specimens to Kamloops by express. Leave

Sicamous & travel back northward along the East shore of the lake, Camping rather late at old spot in Cinamousun Narrows. A beautiful day at last, enabling work to be done in comfort, though a little squall coming up in the evening prevented taking soundings in crossing lake to Narrows as I had intended. New snow pretty low down on the mountains & whether directly from this or not the evening air very chilly.

Sept. 23. A very fine day throughout. Nearly calm & bright sun as soon as the morning mists & clouds cleared away from the mountains. Got some soundings opposite the Narrows & then up N.E. arm on W. side to within a couple of miles of head. Then cross & return about half way on E. side, to camp, on small square bay. Progress slow as close alternation & constant landing necessary because of puzzling character of the much altered rocks hereabouts. Saw two porcupines during the day. Also saw one grouse, but could not get a shot at it.

Sept. 24. A beautiful day throughout, fine & nearly calm, but sky very threatening for tomorrow, with quantities of low cirrus clouds & barometer going down steadily & fast. Back to Cinnamomum Narrows, getting some soundings by the way & then up along the E. shore of Seymour Arm, camping on north side of large bay not far from the head. Did not reach camp till 6.20, nearly dark & could find no campable beach at more reasonable hour. The beach we are camped on is full open to a long reach of lake southward & is evidently well washed at times by heavy storms, clean granitic gravel in a series of steps. This is the earliest date at which McE. expected to reach head of arms & if we have any kind of luck we should get there tomorrow, not much behind time.

Sept 25. Up by daylight & off early, fearing to be windbound by the expected storm. Morning very dull & glooming with light rain, but calm. When near head of lake crossed to west shore & began getting up marks on points where thought

possibly that Mr Every might come onto lake. Find an Indian camp with man, woman & boy, near head of lake & from them learn that Mr E. & fore already here, camped at the mouth of the river. Find them there all well, with a little shelter or hut built of drift wood (They had brought tent out with them) Spend the afternoon putting canvas boat together, getting some soundings in this part of lake etc etc. Rainy much of the afternoon & continued very heavy rain in the evening. Whole shore about here & all the banks of the river littered with dead & decomposing Salmon, making a most unfavourable smell. Asked Mr E why he chose to camp just here & found it was in order to get river water instead of that near dead Salmon close to edge of the lake, but as it was both he & fore had been made sick by drinking the river water on their first arrival.

Sept. 26. Very heavy rain in the night & early this morning, but about 6 a.m. looking better. Rain ceased, but still

wind up the lake most of day. Mr E., with Eaton & Drunk off up the river in canoe, to get it laid down as far as edge of woods. Stay in camp myself all day, looking after various little matters connected with outfit. Out along shore with the gun, but did not get a single shot, the ducks so very wild. Evening quite fine, with bright coloured clouds & fine glyglow on high, new snow-covered mountains, S of head of N E. arm. Near camp, find a post driven in the beach with the following lugubrious notice. — "A poor dead man grave that are drone on this place. Soe are two boy grave him. Michel Kuchu". This S told to mean — A poor dead mans grave that was drowned on this place. So we two boys buried him.

Sept. 27. Another bad looking morning, cloudy & dark. Left camp & spent all day travelling down along W. side of Seymour arm, & examining rocks & getting some additional soundings. Rain began soon after we left camp,

& continued, either heavy or light, most of day. Very unsatisfactory weather for the work in hand & very uncomfortable. Everything just dried out yesterday getting sopping again today. Heavy rain falling now & camp fires of rather damp wood not very cheerful.

Sept. 28. Heavy rain nearly all night & continuing this morning after daylight. Camp in consequence not very early astir, but after breakfast appearance of clearing & got off at 9 am. After this fine all day, the sun actually shining for several hours! Nearly calm. Progress well with examination of shore, lunching just N. of 'Cape Horn' & camping over six miles beyond it on a nice gravelly beach facing westward with fine view of all the lower part of the lake & Copper Island etc. Got several photos. today. Rising clouding over a little & weather not quite so favourable looking.

Sept. 29. A very fine day & almost calm throughout. Continue westward along north shore to lunch point near place where we were windbound before crossing the lake on way up. From here made a straight line to Copper Island for

Soundings. Examined Copper Island, then Blind Bay, camping on S. shore near entrance to the bay. McCoy & Joe in Canvas Canoe followed north shore & made the shortest crossing to Copper Island & thence to S. shore. Got several photographs today. Barometer rather on the down track again & sky rather favorable looking for tomorrow. Saw a deer on the beach today, the only one Saw far on the lake, but it got away before we could get a shot at it.

Sept. 30. Up early, with a rather glooming sky, but clearing & turning out a fine day. Completed examination of lake shore & soundings, & stowed away boat log on entering the little stretch of river between the lakes. McCoy took the railway track on foot for two miles between the lakes & rejoined us at lunch point at head of Little Shuswap Lake. On down Little lake & river to old Camp near Shuswap Station without stops, getting there at 4.30 P.M. McE & Joe followed

in Canvas boat about 40 minutes later. Got out stuff left in store at Shuswap & overhauled everything to select what I will require to take with me. Repacked & completed all arrangements. Dropped down the river in Canoe long after dark, to opposite station; Carried things up to Station & left for Kamloops at 9.25 by train. The river is now full of hook-nose or steel-head Salmon, jumping everywhere & the Indians are hard at work working a barrel, net & then flaring lights of pitch wood burning while they spear the fish. A peculiar close to outdoor work this year as we floated down the quiet river in intense darkness from last camp.

Oct. 1. All day in Kamloops closing up work, packing & arranging with McE about the remainder of his season in the field etc. Telegraphed to Dr Selwyn, to Fulton & E Rawlins who it seems from a note received is likely to be in Revelstoke today.

Oct 2. Up in time to leave by train for the East which due at 3.05 a.m. but found that had to wait till 4.30, the train being late. McCrory on same train as far as Shurwop, where he returns to Camp. On arrival at Rivelstoke found R. going East by the same train. Fine day a good view of mountains etc which were become tiresome. Plenty of snow on all of them & we pretty low down.

Oct. 3. Continued Eastward, passing Regina in the Evening. Tried a few snap shots by Missouri Coteau near Secretan etc. Prairie covered with a little early snow from near Swift Current.

Oct. 4. Reach Winnipeg about noon. Met Daly & Christolen, his private secretary on train from Brandon. Evening before dark at Port Arthur, the accumulation of time on the line making new parts of the road visible. Sir W. Van Horne & Mr James Ross in private car

from Winnipeg, bound to Montreal.
Oct. 5. On Eastward, all daylight
running along N. shore of L. Superior
from Port Arthur. Evening about
White River.
Oct. 6. North Bay about 7 Am, ~~at~~ where
a ~~[illegible]~~ private car with Sir Chas. Tupper
& Hon his aide attached. A fine day.
Reach Ottawa at 4 P.m., Rankine also
stopping off here. Dinner at Club.

Oct. 7. Sunday. Find that Dr Selwyn
has already left for England. Go office
for a short time in the afternoon. Called
on Florence with R. William tho
not yet returned from the Falls.