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KENYA

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TCHARD, C.H.

1920

3rd Sept.

at previous Paper.

POWELL WOOD PROCESS FOR RAILWAY SLEEPERS

Memo. of case for adoption of in connection with railway construction in Kenya.

444986

Minutes written

at subsequent Paper.

P
49994

~~CONFIDENTIAL~~

Reference No. 30262/1926.

MEMORANDUM FOR CONSIDERATION BY

The Rt. Hon. Viscount Milner

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in regard to

THE POWELL WOOD PROCESS &c.

1. It is now 19 months since I first brought the above Process to the notice of the Colonial Office (through Major Thornton) with a view to its adoption in British East Africa, now Kenya Colony.

2. A year ago I was officially informed that Viscount Milner hoped to make a decision respecting the Powell Wood Process in a few weeks.

3. An Engineer of the Crown Agents for the Colonies, Mr Spiller, came early in 1919, to the offices of the Syndicate owning the Powell Process, and made full investigations of its claims.

4. Inquiries were subsequently made regarding experience of the Powell Process in Australia and I understand that the reports from that Country were entirely favourable. Inquiries were probably made in other directions.

5. About the end of April of this year I learned that a new railway, 136 miles long, was to be constructed in British East Africa. That railway is known as the Mombasa Railway. I had several interviews with Mr. G. T. Collyer, a First Class Clerk (I think) at the Colonial Office, and drew up statements to show that sleepers made of timber grown in Kenya Colony could be produced at about 11/- a piece (of which 2/3 was to go to a sinking fund) whereas steel sleepers, exported from this Country, would cost 26/- each f.o.b. London.

6. I saw Sir Edward Northey, the Governor of the Colony at Mr. Bottomley's office, on the 4th of May and went through my proposals with him.

His Excellency was undoubtedly favourably impressed by those proposals and

(a) asked Mr. Bottomley if it would be possible to borrow from the Railway Loan for the purpose of erecting the Powellizing Plant I had suggested: Mr. Bottomley's reply was in the affirmative.

(b) He said quite openly that the Contractor must be consulted.

It appeared to me that, although the Crown Agents had long known of the Process and were, presumably, satisfied as to its merits in relation to Railway Sleepers, a contract had been subsequently entered into for the construction of the Plateau Railway, and that, in this contract, it had been arranged to use "steel sleepers", although, as I have stated, the latter were much more expensive. They are certainly three times as expensive as our timber sleepers, treated by Powell Process.

7. Shortly afterwards, having heard that the final decision as to whether steel sleepers or Powellized wooden sleepers should be used rested with the Consulting Railway Engineers to the Crown Agents for the Colonies, I obtained an interview with Sir Robert Gale, a partner in this Firm of Consulting Railway Engineers. (But see C.O. 30262/1920 of 26th June) My conversation with him showed clearly that the decision would be in favour of "steel" sleepers.

Setting aside my view that the refusal to use the Powell Process involved a very great waste of money to the Colony, there is the fact that I have not yet been informed what the Colonial Office declines to have anything to do

Agents would only say what they had said a year before, plus what their Consulting Railway Engineers had to say on the subject.

That, naturally, finished off everything.

It is not pleasant for me to remember that I had acquiesced in all that the Crown Agents Engineers had said and suggested a year before, even going so far as to guarantee to pay for the Experimental Plant which had been proposed to me in 1919, should my claims in regard to the Powell Process prove untenable. I had also offered to go out for six months in charge of that Experimental Plant but nothing more had been said on that point. I saw a short Minute advising that Viscount Milner might be well advised to carefully weigh this proposal of an Experimental Plant, although I had guaranteed to bear any loss.

P. I may be told that it is not my affair, but I think I am entitled, having been on Railway Construction in South Africa, to point out that no Contractor should be required for the construction of 136 miles of Railway. The Engineers of a Colony who can't do that much for themselves are not worth their salaries. I can only conclude that they were never asked to say whether they could do it, or not.

Sir Edward Northey is reported (in the "Times") to have publicly stated that the Plateau Railway would cost £2,000,000. I know that 136 miles of the existing line are to be taken up and laid in the new construction, that section of the existing line to be relaid with new material. Disregarding the cost of that operation, which should not be very high, the Plateau Railway, if the £2,000,000 were spent on construction alone, would cost £14,700 per mile! Allowing for stations and sidings and telegraph wires, gangers' cottages etc., the cost is appalling for a mitre gauge Railway.

I confine myself to the one item of sleepers. Each sleeper, costing 28/- apiece, F.O.B. London, must cost at least 40/- by the time they are laid in the track in Kenya Colony. There will be quite 275,000 of them in 16 miles of construction, including sidings. The cutlay, therefore, at £2 each, amounts to £550,000. Had my suggestion been adopted, that cutlay would not have exceeded £160,000, of which £32,000 would have been set aside to pay for the requisite Powellizing Plant, which would continue working for many years - and £89,375 would have been paid to local timber concessionaires for supplying green sleepers at 6/6 each, at which price Major E.S. Grosvenor, D.S.C., had assured my Solicitors and myself that he would be willing to supply such sleepers for this particular railway contract. Other concessionaires would no doubt have been equally prepared to meet all sleeper requirements.

Assuming that my figures are not accurate and that steel sleepers would only cost £500,000 (instead of £550,000) and that cut sleepers would cost £200,000 (instead of £160,000) saving of £300,000 would have been affected. If interest on the Kenya Colony Railway Loan is at 6%, the difference between the capital cost of the two kinds of sleepers being £300,000, the saving in interest, every year, would amount to £18,000. Even if our sleepers only lasted 7 years, that saving (disregarding compound interest) would amount to £126,000. If Professor Boulger and Mr. Pearson are right and the Powellized sleepers last 12 years, then the saving of £18,000 per annum would amount, on the same basis to £216,000 - more than enough to relay entirely the whole line.

Viscount Milner is anxious to develop our Colonies. May I venture to point out how Kenya Colony is being handicapped

handicapped if my knowledge of this Plateau Railway Contract is correct.

- (a) I understand that the contractor is to lay down all material supplied to him free of charge, receiving a percentage of the cost of his remuneration.
- (b) If that remuneration is 10% on a Sleeper costing 4/- delivered to him, the contractor receives 4/-.
- (c) If there are 275,000 Sleepers, the commission in respect of this item alone, will amount to £55,000 entailing an annual payment in interest (6%) of £3,300.
- (d) Whether the contractor pays the necessary labourers or not, this expenditure is wastefully high.

I am, of course, very much in the dark, but Viscount Milner can naturally procure the precise terms of this Railway Contract. I do not think he will approve of them.

To turn to my own affairs, I beg that you will submit this statement to his Lordship for his favourable consideration. Legally, of course, I have no redress, but I am confident that Viscount Milner will feel that I have been very badly treated and will agree that I should not have been submitted to the worry and anxiety through which I have gone, and that it was quite unnecessary to keep me hanging on spending money and time on waiting for the definite decision which has never yet been sent to me. If his Lordship regards my point of view as justified, I would submit one proposal which would benefit Kenya Colony and myself, and atone for the past without any cost to the Colonial Office or the Colony.

Yours faithfully,

(Sgd) C.H. Pritchard,

1889/90 Kenya

A. 1001

4 October 1926

Sir H. Newall

With reference

to the original draft

communications which

passed in May and June

last on the question of

admitting the Powell Brook

process in East Africa.

I enclose to you

etc. etc. concerning that

a compromise should be

arrived at the matter

can be discussed.

2. The compromise has

been agreed to. Please

see J. B. at 3.30 p.m.

DRAFT.

C. A.

MINUTE.

Mr. Bottomley, 2/10/26

Mr.

Mr.

Mr. Grindle.

Sir H. Lambert.

Sir H. Read.

Sir G. Fiddes.

Col. Murray

Lord Milner.

~~Mr. Bottomley~~

Mr. Pritchard came to see me personally yesterday and I left with him the attached memorandum. He agreed to be very rare if he believed bad treatment, which he had received at the hands of the Great Ayre's and this Office. The main grievance appears to be the delay in giving him a definite answer as to whether his process ^{would} be accepted for passengers on the Railway or not.

Garrison brought to
me complaints -

Pet.

24.3.20

~~Sir H. Ward~~

attach a copy of the memorandum on this subject. I can assure you there has been any undue delay in a matter of such great importance to us. It is a principal interval, as you will notice, as it is manifested by the reference to Western Australia, the original consideration of the proposals to the Australian Government and the enquiries which Sir E. Denison has been making since his return to the Colony. I have still waiting for his final views by telegraph from him.

apart from delay there has certainly been

so obstruction in the East African Department. For my part I have gone as far as pressing the apparent merits of Mr. Pritchard's process as I could, without exposing myself to enquiry up to the size of the cheque.

As regards the Crown Agents, I only know what Mr. Pritchard had already told me of the interview referred to in paragraph 6 of this memorandum. I still think the Consulting Engineers attitude is unduly conservative and that the figures given in their report attached to 22226/20 are based upon prejudiced opinion as to the service life of steel creosoted and Powellised sleepers. This question of life is the crux of the whole matter. No amount of guarantees as to replacement during the term of years will satisfactorily settle the question whether the Government will or will not lose in the long run by the adoption of the process.

As to details, Paragraph 6 (b), Sir E. Northey, of course, meant that in the event of the process being declared unsatisfactory it would be necessary to consult the contractor before the contract was provided for, and not that the Contractor should be consulted before the process was turned down. The following paragraph is really a repetition on Mr. Pritchard's part. The contract for the construction of the railway has not yet even been entered into.

Paragraph 7: As I have pointed out, we are not yet in a position to inform Mr. Pritchard whether the Colonial Government wish to have an experimental plant or not. His reference to information received on the 6th July must be to one of his numerous calls here. I had already informed him on the 18th June that I thought there was no chance of his process being taken

up

up beyond a small experimental plant. I have put him in communication with Mr. Bettiscombe, the Chief Conservator of Forests.

Paragraph 8: The last paragraph is not specially relative to the main issue, since the discussion which has taken place has not been on the question of the terms for an experimental plant, but on the adoption of the process generally. It will be time to take up the terms on which we should have an experimental plant when we hear from the Governor that he wants one. I do not understand the last sentence of this paragraph; of course Mr. Pritchard has seen no minutes here.

Paragraph 9: It is certainly not within Mr. Pritchard's province to discuss whether railway construction in Kenya should be done departmentally or by a contractor. As a matter of fact it was ~~not~~

~~intended to recommend construction by a contractor.~~

Plans for the railway programme are still under consideration and the mileage is under reconsideration. This must validate Mr. Pritchard's calculation and the points mentioned on the last page of the memorandum are based on inaccurate information; in particular the contractors' remuneration will not be 10%, but 5%.

In regard to the last complete paragraph on page 5, I do not think that either Professor Boulger or Mr. Pearson are able to say definitely that Powellized sleepers of East African wood will under East African conditions last 12 years. Mr. Bettiscombe in 36336 stated that he had discussed the matter with

Mr.

Mr Pearson and others and he suggested that the two others should be consulted. It ~~was~~^{is} perhaps better if we consult Mr. Pearson and I suggest that we should still ask Mr. Battiscombe (who ~~will~~^{soon} leave) what Mr. Pearson told him.

In regard to the last paragraph of the memorandum, all we can say is that he is not yet in a position to give him a final answer as we are still waiting for the reply by telegram from the Governor.

Say, however, that his telegram will probably deal only with the question of Powellized plant for experimental purposes, as it seems likely, as he was informed orally on the 10th June, that the Governor will not be prepared to recommend that Powellized sleepers should be adopted in the future railway construction without previous experiment.

Add that Lord Milner regrets that the consideration of the process has taken so long, but he cannot admit there has been any undue delay in considering the scheme, the success or ~~failure~~^{failure} of which would be a serious matter for the Colonial Government.

There remains the last sentence in which Mr. Pritchard says that he still has a proposal to make. I am not anxious to engage in any interview with Mr. Pritchard alone and it will be best for him to be asked to make this proposal in writing. If he does not wish to do this a meeting might be arranged at which Colonel Carmichael should be invited to be present, and I hope that you will be willing to preside.

W.C. 27.7.20

A. J. D.
27/7/20

Mr. Bottomley

I spoke to you today. I have now spoken to Lord Milner. He thinks a conference should be held at which Sir R. Read, yourself, Mr. Pritchard and Colonel Carmichael should be present, together with any others you think fit, and that this conference should be presided over by Colonel Amery. I have also spoken to Colonel Amery, who agrees. If you will arrange a date with Colonel Amery, I will communicate with Mr. Pritchard.

1.10.20

Refr. ~~for~~^{for} a ~~gathering~~^{gathering}
letter

M. B. Bottomley

Thursday 1st October 1920 will

convenient to you

for the meeting?

- 836/19 4.2.19. Pritchard asks for consideration of his process.
- 11.2.19. Letter referred to Crown Agents.
- 23497/19 16.4.19. - Crown Agents report that Pritchard cannot yet submit proposals owing to illness of a Director.
- 1735/19 26.4.19. Crown Agents report on discussion and make various suggestions. Recommend reference to Western Australia as to success of process.
- 24.6.19. Agent General, Western Australia, asked for report.
- 5.12.6/19 27.7.19. Agent General, Western Australia, has cabled to his Government.
- 43030/19 22.7.19. Pritchard receives enquiry, but fears injurious representations in Australia should give chance of rebutting.
- 50182/19 7.10.19. Agent General, Western Australia, sends report.
- 50186/19 14.10.19. Pritchard submits proposals for a timber concession on the Tana River. Ask that matter may be discussed with Governor on his arrival.
- 4.11.19. Pritchard informed that this would be done.
- 5.11.19. Correspondence sent out to East Africa Protectorate for consideration, including consideration of the Powell process.
- 9.12.19. Discussed with Sir E. Northey, who says that matter must be left to Acting Governor.
- 16.12.19. Pritchard informed.
- 17392/19 30.12.19. Pritchard writes further on the advantages of wood substitution.
- 5.1.20. Copy sent to East Africa Protectorate.
- 12731/20 31.1.20. Despatch from Acting Governor received.
- 20.3.20. Matter referred to Sir E. Northey whose attention is drawn to great saving in railway costs.

cost if process suitable.

Sir E. Marthay considers that more information 17312/20 from Australia would be required as to the process. Wrote generally as to concession. He considers that Pritchard should go out to ~~Australia~~ ^{East Africa}.

18.4.20. Pritchard complains of delay.

20.4.20. Oral discussions with Pritchard who was placed in communication with Major ~~Boulger~~ as to timber being available.

23.4.20. Sir E. Marthay's views and interests from reports of Chief Conservator of Forests and General Manager of the Uganda Railways sent to principals. Secretary of State shares local view that the Government should limit itself to commercial dealings with any Company Pritchard may form and all possible assistance should be given to such a company.

Despatch received on question of wood distillation 20219/20 to:

... sent to Pritchard.

22226/20 Pritchard furnishes estimates of cost and suitability of Powellized sleepers.

22226/20 Despatch to Sir E. Marthay and Pritchard.

22226/20 difficulty in finance by Government.

22226/20 Despatch to Crown Agents.

10.5.20. Pritchard's testimony from Professor Boulger. 23596/20 Views of Crown Agents & Consulting Engineers submitted. 22226/20 Conclusions of Consulting Engineers disputed

in detail by East Africa Department.

18.6.20. Telegram sent to Governor summarizing figures as to expenditure on soft wood, steel, and Powellized wood sleepers. What does he recommend. If concrete suggest small Powellizing plant for experiment.

- 0262/20. 18.6.20. Pritchard called. Informed generally on course beyond initial experimental plant and on question of commercial development recommended to get into touch with Mr. Battiscombe, Chief Conservator of Forests now on leave. Pritchard complains of attitude of Consulting Engineers, and delay. Requests instructions to Pearson and Boulger and asks for discussion with Battiscombe.
- 18.6.20. Pritchard may discuss with Battiscombe, but decision as to Powellizing depends on report from Government.
- 26.6.20. Telegram from Governor. General Manager opposed use of local wood - insufficient until railways built. Experimental Powellizing plant required, but advisable to wait for reply from Australia to telegram which had been sent.
- 5221/20. 21.7.20. Telegram from Governor stating that re-railing must be postponed so that no question of Australian hard wood arises ^{for that purpose}. Despatch. Plant - lease of steel sleepers required or do we want Australian hard wood plus experimental Powellizing plant?
- 21.7.20. 22.7.20. Pritchard able to support Government exploitation of Powellizing process, but Public Works Department might have a small experimental plant. Has discussed with Pearson, Lane Poole, and Perree.建议 Lane Poole and Perree be consulted. Crown Agents told to consult Lane Poole and Perree.
- 36336/20. 22.7.20. Despatch to Governor summarizing figures as to expenditure on soft wood, steel, and Powellized wood sleepers. What does he recommend. If concrete suggest small Powellizing plant for experiment.
- 29.7.20. 39345/20. Despatch to Governor summarizing figures as to expenditure on soft wood, steel, and Powellized wood sleepers. What does he recommend. If concrete suggest small Powellizing plant for experiment.

9.8.20. Crown Agents report Jane Poole has returned
to Australia, but they will see Pearce.

3934/20

25.8.20. Governor reminded by telegram

25.8.20. Crown Agents report Pearce unsavourable. This
is confidential.

42186/2

7.9.20. Governor telegraphs that information from
Australia unsatisfactory, but has cabled for
further details. Hopes to reply to telegram
of 21st July soon.

44986/2

~~Confidential~~

Reference No. SC265/1920.

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MEMORANDUM FOR CONSIDERATION BY

The Rt. Hon. Viscount Milner

in regard to

THE POWELL WOOD PROCESS &c.

1. It is now 12 months since I first brought the above process to the notice of the Colonial Office (through Major Thornton) with a view to its adoption in British East Africa, now Kenya Colony.
2. A year ago, I was officially informed that Viscount Milner hoped to make a decision respecting the Powell Wood Process in a few weeks.
3. An Engineer of the Crown Agents for the Colonies, Mr. Spiller, came, early in 1919, to the offices of the Syndicate using the Powell Process, and made full investigations of its claims.
4. Inquiries were subsequently made regarding experience of the Powell Process in Australia and I understand that the reports from that country were entirely favourable. Inquiries were probably made in other directions.
5. About the end of April of this year I learned that a new railway, 136 miles long, was to be constructed in British East Africa. That railway is known as the Plateau Railway. I had several interviews with Mr. Bottomley, a First Class Clerk (I think) at the Colonial Office, and drew up statements to show that sleepers made of timber grown in Kenya Colony could be produced at about 11/3 apiece (of which 2/3 was to go for a sinking fund) whereas steel sleepers, imported from this country, would cost 25/- each f.o.b. London.

6. I saw Sir Edward Northey, the Governor of the Colony, at Mr. Bottomley's office, on the 4th of May and went through my proposals with him.

His Excellency was undoubtedly favourably impressed by these proposals and

(a) asked Mr. Bottomley if it would be possible to borrow from the Railway Loan for the purpose of erecting the Powellizing Plant I had suggested. Mr. Bottomley's reply was in the affirmative.

(b) He said quite openly that the Contractor must be consulted.

It appeared to me that, although the Crown Agents had long known of the process and were, presumably, satisfied w^t its merits in relation to Railway Sleepers, a contract had been subsequently entered into for the construction of the Pithau Railway, and that, in this contract, it had been arranged to use "steel sleepers", although, as I have stated, the latter were much more expensive. They are certainly three times as expensive as our timber sleepers. The Powell Process.

7. Shortly afterwards, having heard that the final decision as to whether steel sleepers or Powellized wooden sleepers should be used rested with the Consulting Engineers to the Crown Agents for the Colonies, I obtained an interview with Sir Robert Gate, a partner in this Firm of Consulting Railway Engineers. (See O.O.30262/1920 of 26th June.) My conversation with him shewed clearly that the decision was in favour of "steel" sleepers.

Setting aside the view that the refusal to use the Powell Process is a very great waste of money to the Colony, there is the fact that I have not yet been informed that the Colonial Office declines to have anything to do



with that Progress in relation to Kenya Colony. My last information, on the 6th of July now over two months ago was that the Colonial Office was awaiting a reply from Sir Mount Forthay to a cable that had been sent to him (already referred to above).

After seeing Sir Robert Gale, and thinking that his decision might be overridden if the Colonial Office was satisfied that the Powell Process offered the saving in capital cost that I had shown, I went again to see Mr. Spiller at his office at the Crown Agents. I gathered that if the Authorities concerned were satisfied that our sleepers would give an assured life of seven years, the Powell Process would be adopted. The Secretary to the Crown Agents was with Mr. Spiller when I called. I urged that Professor Bonjardim, an authority on timber at the Imperial Institute had given his opinion in writing that sleepers of local yellow wood, treated by the Powell Process, would last for fifty years. Since then, Mr. Ralph S. Pearson, C.I.E., the Indian Forest Surveyor, who has had quite 18 years' experience in India of the Powell Process in connection with sleepers (made of all sorts of timber), has stated that, in his opinion Powellized Yellow Wood Sleepers would last 12 or 15 years in Kenya Colony. There should thus have been no difficulty in satisfying the Colonial Office that a life of 7 years was undoubtedly assured. In my opinion, the Secretary to the Crown Agents and Mr. Spiller were prepared to give that assurance to the Colonial Office; unfortunately, however, Colonel Carmichael came into Mr. Spiller's room and asked how I was getting on with my Process. As soon as he learned what we were arranging, Colonel Carmichael became violent in voice and manner and told the Secretary that he could do what he pleased about it, but the Engineers of the Crown

Agents would only say what they had said a year before, plus what ~~their~~ Consulting Railway Engineers had to say on the subject.

That, naturally, finished off everything.

It is not pleasant for me to remember that I had acquainted myself with all that the Crown Agents Engineers had said and suggested a year before, even going so far as to guarantee to pay for the Experimental Plant which had been proposed to have in 1919, should my claims in regard to the Powell Process prove untenable. I had also offered to go out for six months in charge of that Experimental Plant but nothing more had been said on that point. I saw a short Minute advising that Viscount Milner might be well advised to carefully weigh this proposal of an Experimental Plant, although I had guaranteed to bear any loss!

9. I may be told that it is not my affair, but I think I am entitled, having been on Railway Construction in South Africa, to point out that no Contractor should be required for the construction of 136 miles of Railway. The Engineers of a Colony who can't do that much for themselves are not worth their salaries. I can only conclude that they were never asked to say whether they could do it, or not.

Sir Edward Morley is reported (in the "Times") to have publicly stated that the Plateau Railway would cost £2,000,000. I know that 136 miles of the existing line are to be taken up and laid in the new construction, that section of the existing line to be resaid with new material. Disregarding the cost of that operation, which should not be very high, the Plateau Railway, if the £2,000,000 were spent on construction alone, would cost £14,000 per mile! Allowing for stations and sidings and telegraph wires, gangers' cottages etc., the cost is appalling for a metre gauge Railway.

I confine myself to the one item of sleepers - steel sleepers, costing £2/- apiece, F.O.B. London, must cost at least £2/- by the time they are laid in the track in Kenya Colony. There will be quite 275,000 of them in 136 miles of construction, including sidings. The outlay, therefore, at £2 each, amounts to £550,000. Had my suggestion been adopted, that outlay would not have exceeded £160,000, of which £22,000 would have been set aside to pay for the requisite Powellizing Plant - which would continue working for many years - and £69,575 would have been paid to local railway concessionaires for supplying green sleepers at 6/- £/sq.m., at which price Major E. Grogan D.S.O., had assured my Solicitors and myself that he would be willing to supply such sleepers for this particular railway contract. Other concessionaires would no doubt have been equally prepared to meet all sleeper requirements.

Assuming that my figures are not accurate and that steel sleepers would only cost £500,000 (instead of £550,000) and that our sleepers would cost £200,000 (instead of £160,000) a saving of £300,000 would have been effected. If interest on the Kenya Colony Railway Loan is at 5%, the difference between the capital cost of the two kinds of sleepers being £300,000, the saving in interest, every year, would amount to £18,000. Even if our sleepers only lasted 7 years, that saving (disregarding compound interest) would amount to £126,000. If Professor Bougier and Mr. Pearson are right and the Powellized sleepers last 22 years, then the saving of £18,000 per annum would amount, on the same basis to £216,000 - more than enough to relay entirely the whole line.

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material supplies to him free of charge, receiving a percentage
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I have gone and that it was quite unnecessary to keep me waiting
so long money and time on waiting for the despatch of my work
as never yet been sent to me. In this regard, if his Lordship regards my
point of view as justified, I would submit one proposal which would
benefit Her Majesty and myself, and that for me to go without any
one to the Colonial Office or the Colony.

Yours faithfully,

C. D. H. and
G. F. and

3rd September 1900.

M 9 Dec

West Country &
Bristolton.

125

S. Devonshire

under Secretary of State,

Colonial Office.

S. W.

I am in receipt of your letter of the 1st. instant
inviting me to your invitation to attend
conference, under the presidency of
the Prince at 3.30 p.m. on Thursday next,
Finsbury

Yours very truly
A. G. Richardson

I am -

Sir -

Your obedient servant

A. Pitchard.