

Orange May 8th 1871

Dear Marsh.

I enclose for you
the map of the John Day valley
and surrounding country.
You are quite welcome to
keep it all through the
coming campaign.

The igneous rocks are colored
red, they are represented
however by two distinct shades.
The long line of red between
the two rivers indicates the
end of the lava field flowing
from the Cascade Mts.
The Tygh river comes down
from Mt Hood

The opening article in the
May number of the "Overland"
is from the pen of Thomas Condon
on the "Locks of the John Day
Valley" Condon published
an article some three years
ago on the geology of Oregon,
which if you wish to see, you
can find in Raymond's report
for 1870 on "Mining Statistics"
Prof. Brush has a copy of the
work

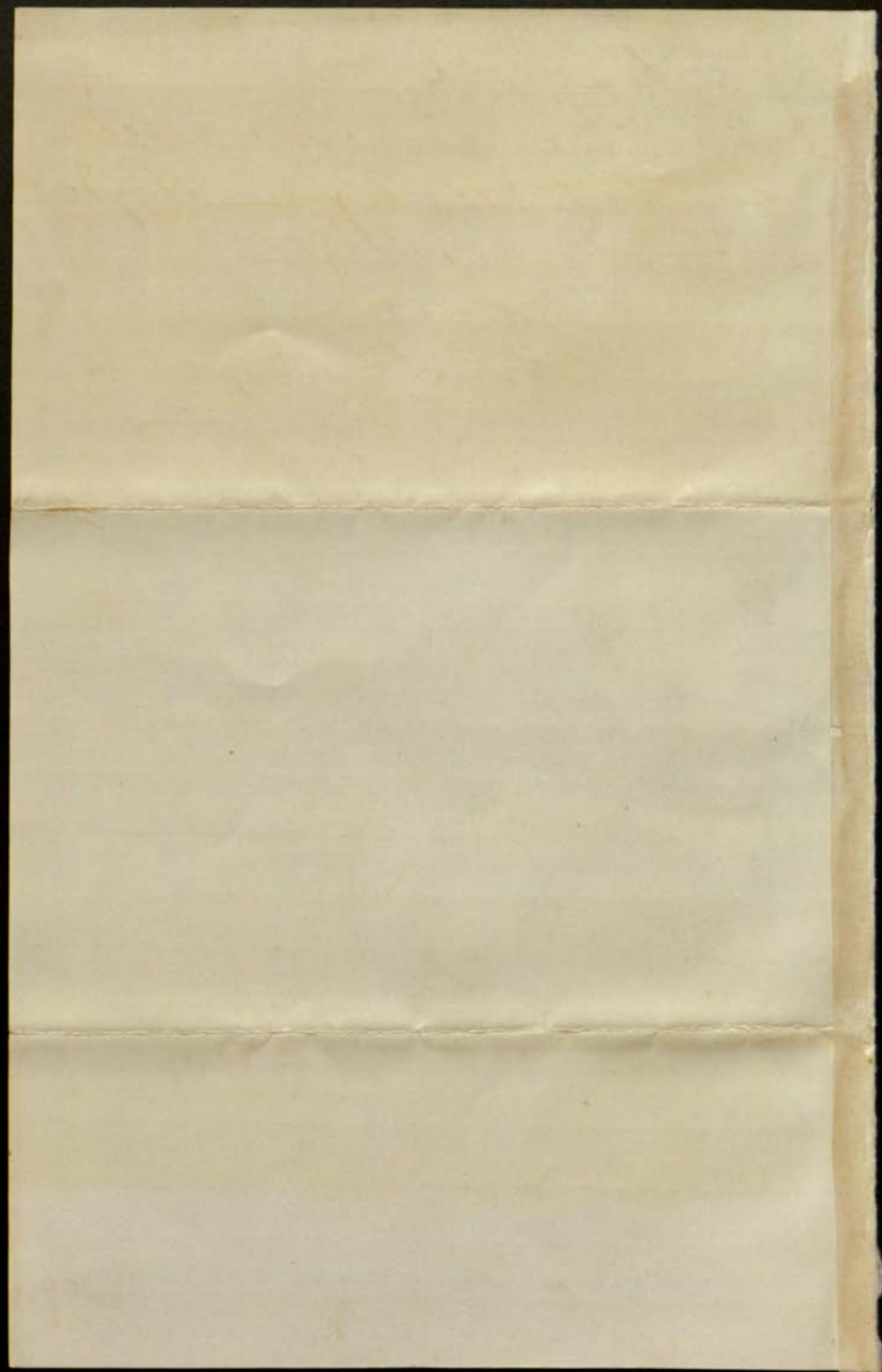
King and party left last
night and I will follow
in about a week. I com-
mence work near Cheyenne.
When do you go out, I
trust we may meet
out there. Any notes
you can furnish me either
geological or geographical
will be of service

738
in the field.

I presume you have seen
the last report from Hayden
on "Contiguous Territory."

Yours

Arnold Hague
Orange.




Spur of Blue Mountains
Volcanic

44°

St. George's Bay

 Igneous

 Tertiary

 Cretaceous
& older

Scale of 6 miles to the inch

Blue Days River

120 West

Des Chutes River

Falls
Tigh River



H

Hill
with river

Hill
with river

Hill
with river

Hill
with river

DEPARTMENT OF THE INTERIOR,

United States Geological Survey,

New York, N.Y. July 9, 1883.

Prof O. C. Marsh.

New Haven, Conn.

Dear Sir;

I send by mail today the copy of Geological map, which I borrowed from you some time ago. I hope to get away from here Wednesday night or Thursday morning.

If you should happen to be in town before that time let me know.

If you have any particular friends who are going out to the Park this season, and will let me know, or send me a card, I will do all I can to make it pleasant for them. — I was in Washington last week and saw the Director, think he is looking ^{better} than I have seen him for a long time.

Dr Hallowell who is assistant to Dr Barus at the Physical Laboratory at New Haven, is going out with me, to make

physical experiments as regards pressure
boiling point, point of explosion &c. &c
in the geyser pipes.

Are you going to Europe this
summer?

Very respectfully.

Arnold Hague.

#10 West 39th St.

DEPARTMENT OF THE INTERIOR,

United States Geological Survey,

Washington, D. C., April 28, 1886

My dear Marsh

I send you a copy of Herbert's bill introduced ~~into~~ the House on Monday. There is no fear of its passing, yet - it may have an injurious effect on appropriations. Herbert was anxious to publish his minority report but the Commission would not allow but gave him permission to offer his bill. I understand that the bill was submitted to Agassiz and it received his approval before being presented to the House. It is far too sweeping to be very dan-

-agony. Powell is a good deal
excited about it. Allison has
written to him for his opinion
and he is getting up a long reply
I think too long.

Everything looks favorable for the
appropriations

Truly yours
W. A.

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

WASHINGTON D. C.,

April 30, 1886.

Prof. O. C. Marsh,
New Haven Conn.

My dear Prof.

Your letter received. I think my letter to you the day before yesterday will explain most things. There is no doubt that the bill expresses simply the views of Mr Herbert. The bill is simply ridiculous as it permits geological work but prohibits publication. The director is writing up a reply to-day. He says that there is nothing that you can do at present, possibly he may call upon you and others for some expression in the matter but at a later day. There is no doubt but what Agassiz is at the bottom of the business.

Very truly yours,

Arnold Hague

UNITED STATES GEOLOGICAL SURVEY
DEPARTMENT OF THE INTERIOR

WASHINGTON, D. C.

April 10, 1891.

Dear Sir,

I have the honor to acknowledge the receipt of your letter of the 4th inst.

and in reply to inform you that the same has been forwarded to the proper authorities for their consideration.

Very respectfully,
Your obedient servant,

John W. Foster, Secretary of the Interior.

Very truly yours,
John W. Foster.

Enclosed for you are two copies of a report on the geology of the

territory of the United States, which has been prepared by the Geological Survey.

The report is written in a plain and simple manner, and is intended to give a general

idea of the geology of the territory, and of the resources which it contains.

I have the honor to be, Sir, your obedient servant.

Very truly yours,
John W. Foster.

John W. Foster, Secretary of the Interior.

Very truly yours,
John W. Foster.

John W. Foster, Secretary of the Interior.

71861
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

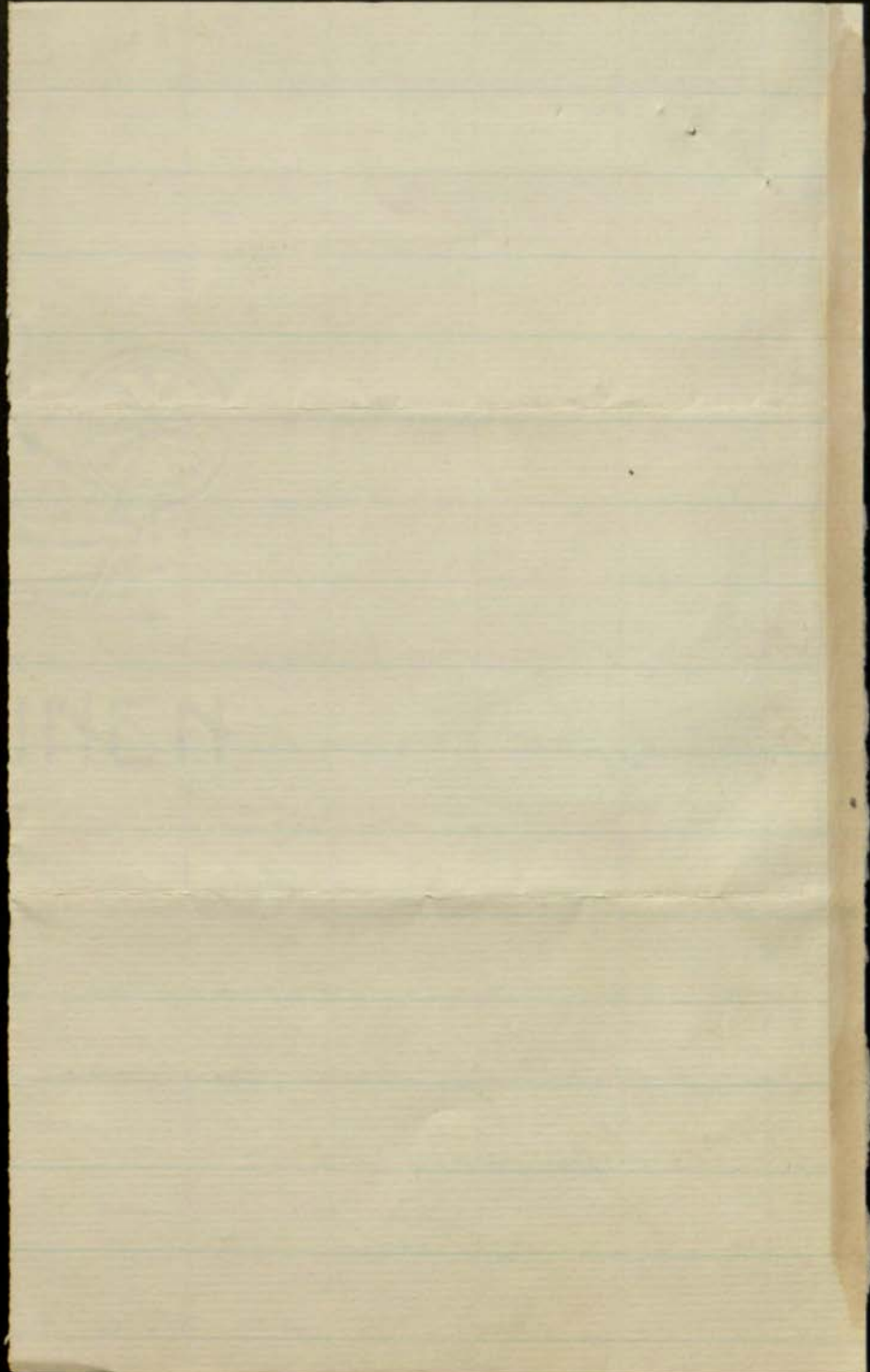
WASHINGTON D. C.

189

[1886 May 2]

My dear Marsh

Powell arrived
this morning from Chicago.
He is far from being a
well man and I feel
sure he can not stand
any severe strain on
the part of any congressional
investigating committee
on an attack in the
House on the question of



7187
appropriations. In the face
of economy they may strike
a heavy blow at the
Survey. I may say I was
surprised at Powell's
lack of nervous force.
The Investigation begins
next week. The Off
com called for Powell
this week, but he was
not in town.

Yours
A. H.

(CRANE'S)

INTAKE

Metropolitan Club
Washington, D.C.

[1886 May 2]

My dear Marsh;

I wrote you
this afternoon, a short note.
Since then I have had
a long talk with Stevenson
who tells me he has
written you, and from
whom he says must
have told you a good
deal of sensational talk.
Do not be worried by

And that—Ponell had received
a good many letters from members
of the Academy. Stevenson has gone
to see Randall to-night—

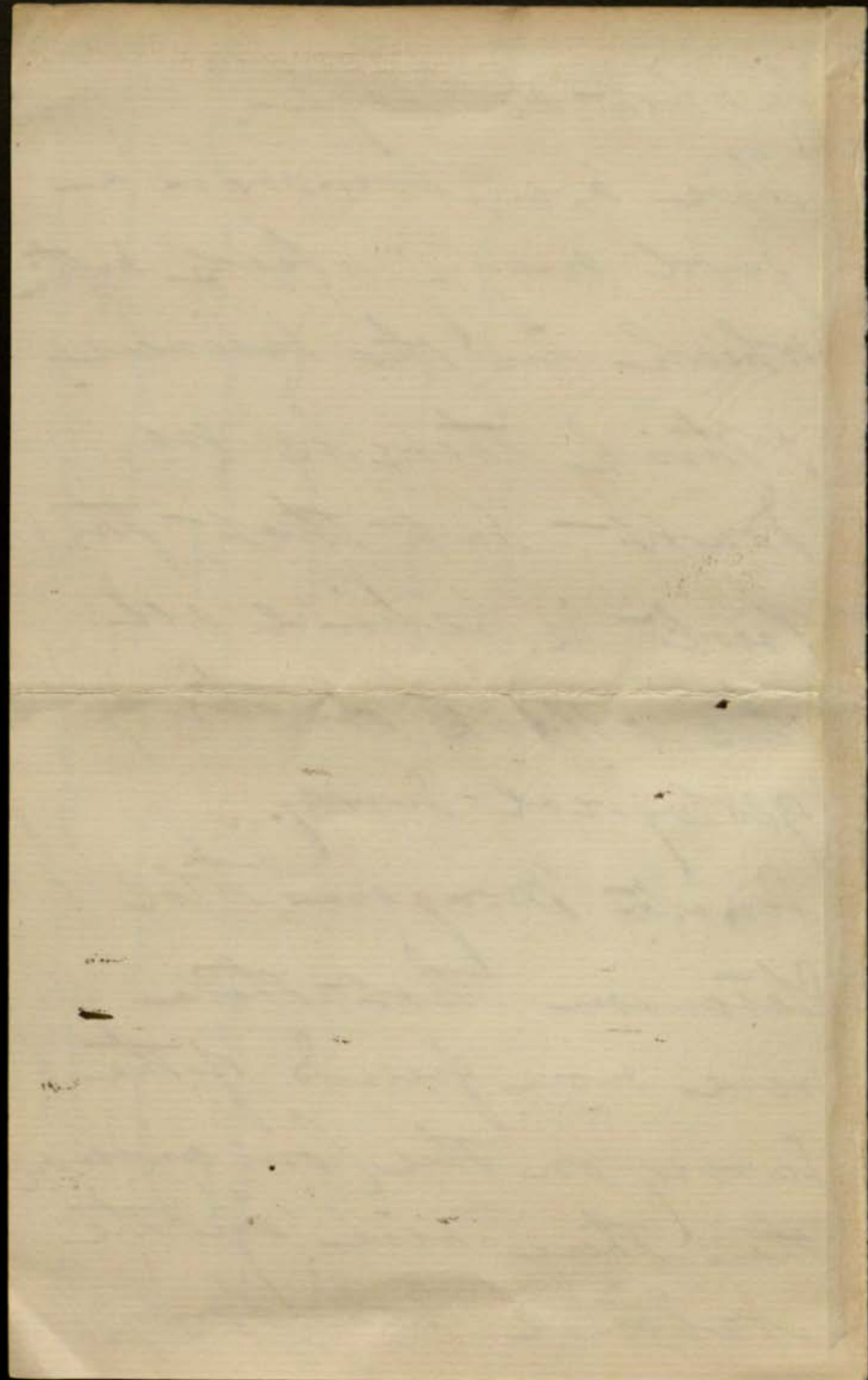
Trag yours—
Wm. L. Wagner

by what he says.

There are, however a
good many wheels within
wheels in this business.

I think there is no
doubt - but that the
Post - is behind all
this attack on the
geological Survey.

Senator Morgan told
Stevenson that there
were more friends of the
Survey on the Commission
than there were in the
National Academy.



DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

WASHINGTON D. C.,

May 4, 1886.

My dear Marsh,

I send you a few lines not because I have anything to definite to say but because I suppose you might be looking for something. There is nothing new since the first outburst of the storm. I think that nothing definite will be done against the Survey in Congress only there is likely to be a good deal of talk and possibly some blows may strike. You cannot tell however where the thing will end. I think restricting the publications is aimed very largely at you. I think there is a desire to cut you off from government aid. All the enemies of the Geological Survey will act together in this matter and it behooves the friends of the Survey to be on the alert. Powell goes before the appropriations committee this evening to explain to Randall and others his ideas of ~~the~~ work and publication. Did you see the

May 4, 1883.

My dear Maria,

I send you a few lines not because I
have anything to definite to say but because I suppose you
might be looking for something. There is nothing new
since the first outbreak of the storm. I think this
nothing definite will be done against the Survey in Con-
gress only there is likely to be a good deal of talk and
possibly some blows may strike. You cannot tell however
where the thing will end. I think restricting the pub-
lications is aimed very largely at you. I think there is
a hesitancy out you off from government aid. All the
members of the Geological Survey will not together in this
matter and it behooves the friends of the Survey to be on
the alert. Powell goes before the appropriations commit-
tee this evening to explain to Randall and others his
ideas of the work and publication. Did you see the

article in to-day's New York World? My opinion is that it is better to delay writing articles to Senators till you learn just what the Commission propose to do officially. In a letter you fire your shot at something which will have no effect if you write before that time. My own opinion is that Powell shot off his letter a little too soon. The result may be that you will not know anything about allotments for many weeks to come. Write me what you hear and do as I want to keep thoroughly posted in the matter. How did King talk to you?

Very truly yours,

Aristel Hague

Prof O. C. Marsh.

New Haven

article in to-day's New York World? My opinion is that
it is better to delay writing articles to Senators till
you learn just what the Commission propose to do officially.
In a letter you fire your shot at something which will
have no effect if you write before that time. My own
opinion is that Powell shot off his letter a little too
soon. The result may be that you will not know anything
about allotment for many weeks to come. Write me
what you hear and do as I want to keep thoroughly posted
in the matter. How did King talk to you?
Very truly yours,

Prof. O. G. Marsh.
New Haven

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

WASHINGTON D. C.,

May 5, 1886.

My dear Marsh,

Nothing very new to-day. Powell did not appear before the Appropriations Committee last evening as I wrote to you but is before them this afternoon. The temper of the Committee can be best judged from the interview. The bill restricting the publications of the Survey has, I understand from Powell, the unanimous consent of the Commission except that they strike out the section referring to laboratories. The section referring to the publication of the monographs and bulletins, and the publications of paleontological work stands as it did originally in Herbert's bill. This is a pretty sweeping change. Agassiz's letter has had a very great influence with the Commission. Cope has followed it up closely having had interviews with several members of the Commission. He states that he is ready to publish all this

May 5, 1888.

My dear Marsh,

Nothing very new to-day. Powell did not appear before the Appropriations Committee last evening as I wrote to you but is before them this afternoon. The temper of the Committee can be best judged from the interview. The bill restricting the publications of the Survey has I understand from Powell the unanimous consent of the Commission except that they strike out the section referring to laboratories. The section referring to the publication of the monographs and bulletins, and the publications of paleontological work stands as it did originally in Herbert's bill. This is a pretty sweeping change. Agassiz's letter has had a very great influence with the Commission. Cope has followed it up closely having had interviews with several members of the Commission. He states that he is ready to publish all this

material at his own expense and at the expense of societies, thus relieving the Government of the cost. This of course is a direct blow at you. Agassiz, Cope and Coues are all after the same end and so far as I can learn these three men have been most active in bringing about the present condition of affairs. I should like to know just how King feels. If I wrote him he would of course not answer my letter.

Very truly yours,

Arnold Hague

Prof. O. C. Marsh

New Haven.

material at his own expense and at the expense of society, thus relieving the Government of the cost. This of course is a direct blow at you. Against Gope and Gove are all after the same end and so far as I can learn those three men have been most active in bringing about the present condition of affairs. I should like to know just how King feels. If I wrote him he would of course not answer my letter.

Very truly yours,

Prof. O. C. Marsh
New Haven.

7130
I am informed that the raid of Senator Morgan and Congressman Herbert upon the Geological Survey grows out of a feud between Prof. Marsh, of Yale College, and Prof. Cope, the two eminent paleontologists. Major Powell, the director of the survey, has placed Prof. Marsh in charge of that branch of the investigations of the bureau, instead of Prof. Cope, who had the work while Prof. Hayden was in charge. Both are able men, but are not satisfied with the work of each other and have not been for years. If the work should be given to Cope I suppose Marsh would make war upon the survey, and Major Powell has got to stand the racket whichever way he may turn. At the Cosmos Club, where the scientific men of Washington make their rendezvous, the details of the squabble are well understood and are a topic of discussion constantly. There is only one

DEPARTMENT OF THE INTERIOR

UNITED STATES GEOLOGICAL SURVEY

WASHINGTON D. C.,

May 13, 1886.

sh.

I suppose that you have been looking for or several days, but there has been nothing report. Powell has not yet appeared before

riations Committee owing to the slight indispo-

sition of Chairman Randall. He has made one or two appointments but they failed to come to time. This morning he appeared before the Science Commission and talked for two hours. He appears pretty well pleased this afternoon with his interview and says he got in several good points. They, however, expressed no opinion as to what they would do. This best information is that Allison, Hale, and Wait of Conn. will sign a majority report strongly in favor of the Survey. I enclose herewith a clipping from last Sunday's Capital which may interest you.

Very truly yours,

Arnold Hague

Prof. O. C. Marsh,

New Haven.

voice concerning the report that Congressman Herbert has made and only one opinion as to the authorship. They all say that no one but Cope could have written it; that it bears his imprint in every line, and that there is not a man in the United States who could handle the subject with as much ability and vigor as he.

... 7150
us. I am informed that the raid of Senator
and Congressman Herbert upon
ington or Geo. of V.

DEPARTMENT OF THE INTERIOR

UNITED STATES GEOLOGICAL SURVEY

WASHINGTON D. C.,

May 13, 1886.

g Stoves

Y USE,

Person, or for Fifty
es and Styles.

BY

CASLIGHT CO.

sh.

I suppose that you have been looking for
r several days, but there has been nothing
report. Powell has not yet appeared before
iations Committee owing to the slight indispo-
sition of Chairman Randall. He has made one or two ap-
pointments but they failed to come to time. This morning
he appeared before the Science Commission and talked for
two hours. He appears pretty well pleased this afternoon
with his interview and says he got in several good points.
They, however, expressed no opinion as to what they would do.
This best information is that Allison, Hale, and Wait of
Conn. will sign a majority report strongly in favor of the
Survey. I enclose herewith a clipping from last Sunday's
Capital which may interest you.

Very truly yours,

Arnold Hague

Prof. O. C. Marsh,

New Haven.

British Generals to Lead an Orange
Rebellion Against Home Rule

7150
I am informed that the raid of Senator Morgan and Congressman Herbert upon the Geological Survey grows out of a quarrel between Prof. Marsh, of Yale, and Prof. Cope, of the University of Pennsylvania. Major Powell placed the matter in the hands of the

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

WASHINGTON D. C.,

May 13, 1886.

My dear Marsh.

I suppose that you have been looking for a letter for several days, but there has been nothing special to report. Powell has not yet appeared before the appropriations Committee owing to the slight indisposition of Chairman Randall. He has made one or two appointments but they failed to come to time. This morning he appeared before the Science Commission and talked for two hours. He appears pretty well pleased this afternoon with his interview and says he got in several good points. They, however, expressed no opinion as to what they would do. This best information is that Allison, Hale, and Wait of Conn. will sign a majority report strongly in favor of the Survey. I enclose herewith a clipping from last Sunday's Capital which may interest you.

Very truly yours,

Arnold Hague

Prof. O. C. Marsh,

New Haven.

Jan. 11, 1888.

My dear friend,

I suppose that you have been looking for a letter for several days now, and have been waiting for it. Powell has not yet appeared before the undersigned, and I am not sure whether he will appear at all. He has not yet been seen since his departure, but they failed to come to him. He appeared before the Senate Committee on Education and Labor, and he appeared before the House Committee on Education and Labor. He appears to be a very good person, and his intervention may save us from a very bad person. However, he expressed no opinion as to what should be done. This is the information that I have, and I am sure that you will also be satisfied with the result of the survey. I enclose herewith a clipping from the New York Herald, which may interest you.

Very truly yours,

Prof. O. C. Marsh,

New Haven.

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

WASHINGTON D. C., June 9, 1886.

Prof. O. C. Marsh,
New Haven Conn.

My dear Marsh:

I telegraphed you a few words this morning giving you good news from the Joint Commission investigating the scientific bureaus. The Major received yesterday afternoon advanced proof-sheets of the full report from the Printing Office, and he had it read aloud to all five of us here in the office. I will not pretend to give you any synopsis of it now. You will see it before a great while. It is a very long report, going over the whole ground of the exploration surveys. It certainly takes very strong ground in favor of the Geological Survey, and I do not see how we could have expected the Commission to have made a stronger report. It takes the bull right by the horns, discusses the expense and time of the whole thing, and says it must go on, and never for a moment dodges or attempts to go around the cost of the Survey, but says it is of great

national importance and must be provided for from time to time by Congress.

It estimates that the work will take at least 24 years, and that the field-work, office, and publication will cost many millions of dollars. Nevertheless, the work must go on, the plans and methods being changed from time to time according to the new developments of science, the increase in population of the country, and the increase in the public treasury. The only restriction which it proposes is in the matter of compelling all illustrations and costs of printing to be submitted before authorization of publication. This, I think, is no more than right, because with free use of illustration and printing there is no doubt that anybody will be liable to extravagance. The only thing the Major objects to is that it places the illustrations of the Annual Reports on the same footing with those of the monographs and bulletins, and he would much prefer to be free to get out the Annual Reports without having to submit costs of illustrations. While this would be an improvement, it is not to me a very serious matter, and I think in time will be properly adjusted.

national importance and will be provided for the time being by the Government.

It is estimated that the work will take at least 25 years.

And that the field-work, office and publication will cost

many millions of dollars. The Government has agreed to

pay the balance and has authorized the necessary funds to be

expended for the purpose of carrying out the work.

It is estimated that the work will take at least 25 years.

And that the field-work, office and publication will cost

many millions of dollars. The Government has agreed to

pay the balance and has authorized the necessary funds to be

expended for the purpose of carrying out the work.

It is estimated that the work will take at least 25 years.

And that the field-work, office and publication will cost

many millions of dollars. The Government has agreed to

pay the balance and has authorized the necessary funds to be

expended for the purpose of carrying out the work.

It is estimated that the work will take at least 25 years.

And that the field-work, office and publication will cost

many millions of dollars. The Government has agreed to

pay the balance and has authorized the necessary funds to be

expended for the purpose of carrying out the work.

We all feel very much delighted with the result so far, and Powell justly feels in very good spirits to-day, as he has had a pretty long fight over the matter. My opinion is nothing will be done this summer. The report will be presented, printed, and put on the tables of the Members. There may be some little discussion but the great discussion will go over till next winter. The report puts the matter in the right light. It states that the work is a great national work, will be very expensive, gives the figures and lets everybody know just where we stand, and what they (the Commission) think ought to be done. It will probably give rise to a great deal of discussion, but in the end we will come out all right.

The Appropriation Committee have prepared the sundry civil bill with the exception of the section referring to the appropriations for the Coast Survey and Geological Survey. Now that they have the report of the Commission before them they will probably fill in the amounts to be given to the different bureaus. My opinion is that we will get the same as last year with possibly a very slight increase, but not very much. The pressure from headquarters is to cut down

appropriations, so that we will do very well if we hold our own of last year.

I cannot say how soon I shall get away. I want to leave in a few days, but there are some matters about which I want to talk to the Director, and he does not feel like acceding to any plans of operation until he understands pretty well what Congress will give us.

The Joint Commission report is signed by Allison, Hale, Lowry and Wait. There had been some doubt about Lowry, but he comes out all right in the end. This is important, because he is a Democrat, and all others Republicans. The minority report will be signed by Senator Morgan and Herbert---both Democrats.

Very truly yours,

Arnold Hague

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

Mammoth Hot Springs July 16th 1886

Prof. O. C. Marsh.,
New Haven, Conn.

My dear Marsh:

Your letter of the 5th sent to Washington reached me here upon my arrival three days ago. I left Washington in June and was detained a long time in Bozeman outfitting the party. I am here at the Springs till Monday when I hope to start for the Upper Geyser Basin. I suppose your questions in regard to the action of Congress have been answered before this. It seems to me the Survey came off with a great victory in both houses of Congress, considering the attacks which had been made upon ^{it} during the past year. Herbert's speech and the debate in the House were wholly insignificant. The whole thing seemed to turn largely upon you, and that on the question of your drawing two salaries, but as this is an error I do

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

188

not see that there was much damage done.

The points which Herbert made about your Report were evidently given him by leafe; only some person as familiar with the subject could have parted him so well.

Mrs J. is not coming here this summer but remains in Colorado with her mother

Truly yours.
Wm. H. Hagar

not see that this was a very good thing
The first thing I did was to get some
I have now a very good one and I hope
very much to see you again with it again
I have now a very good one and I hope
very much to see you again with it again

Yours truly

Wm. L. G. L.