

Warrington 27th Sept 1843

Dear Sir

I received your letter with two volumes of Lyell's principles for which you will accept of my most cordial thanks I shall tomorrow for Warrington and expect to be in New Glasgow on Monday night from which I will forward the and the specimens you referred to Lyell's principles are written with great ability and art and contain a vast amount of information but ~~is~~ exposed to great objections

I have not been at the Cape since I had the pleasure of seeing you I was this week at Tracedu 25 miles on the way to the Gut but had no time to examine the ground particularly I have drawn a rude sketch of the country on the other side which you can correct from your map or if you will draw for me a copy of your map I will return it after marking what I ascertained from enquiry and observation

You remember that on our way to Morristown we passed a thick bed of gypsum at two places which terminated in a bluff which examined between Morristown and Ogden's pond and that I pointed out to you what I thought likely to be a continuation of the bed on the S East side of the Harbour This bed appears again at Monk's Head where the vessels for Halifax load with it when the wind is unfavourable for lying at the rock which you examined near Ogden's pond Between the gypsum and Pomquet Harbour is the bed of Sandstone which I had

On the opposite side of the River there is a bed of limestone which I suspect to be a continuation inland of the one already noticed near Monk's head. Farther on towards Pomquet there is a bed of sandstone softer and coarser than that at Monk, and if I am not misinformed all these dip towards the South. On the Eastern side of Pomquet Harbour the Coal appears but I had not time to go and see it and could get very little information about that I could rely on. I saw beyond this myself as far as Tracadie and if I am not mistaken they belong to the Devonian System which is here of great thickness. They dip towards the North as I told you before. The road to Guysborough crosses the Pomquet River in the interior of the country, and from that to the head of Millford Haven or Guysborough Harbour when the Greywacke begins there is the same series of beds as from the head of Pomquet Harbour to Tracadie. The dip I would take to be at an average 25° but it is in some places much less. I passed some places where the beds were much disturbed and appeared to dip in all directions and the people say it down that they always dip into the bank on whatever side it happens to be. If I am right the Southern shore of the Province had been inhabited before the Carboniferous System was laid

A centre line of massive subidence ~~was seen~~ should in that
case have the same series to the north as to the south of it unless
that the elevation has been far greater on the one side than the
other. But if the coal at Pomquet should dip to the north
it will underly all the strata in which the gypsum rests

I am Dear Sir

Yours Truly

Mr. William Sawson

Thomas Bolton

Foot of Lamyear

Sandstone

Sandstone

Sandstone

Pomquet Harbor

Bay of Amherst

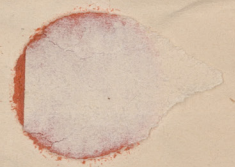
George

Bay of Amherst

Bay of Amherst

Letter
G Trotter
Sept / 43

William Dawson



grained and more compact than the ^{W. side of the} ~~Morristown~~ ^{W. side of the} sandstone and its
colour is neither red nor grey but something between them
about a mile or two from the shore there is a fine limestone quarry
which I suspect rests on the sandstone though I cannot be certain of
it I pointed out a round hill to you on the S. East side of our
harbour opposite the lower point which I conjectured from certain
circumstances to be Gyanta the conjecture is all but confirmed by
the information I have received on the western side of the shore
a little below the Gut road. there is a thick bed of gypsum
with an intermixture of limestone. both of a very good quality

downward and the success in beds of the river come in various in
the inclined face of the last of Devonian If this be the way the
Lyell will be right in making the beds ^{on} of the northern side
of the coal older than the coal itself provided always that
the coal does not dip to north like all the beds on the other side of
it And thus I could not ascertain I has this morning got
some account of a bed of Sandstone in St Mary's that shakes my
opinion about the state of that place I could hear of no gypsum
on the other side of Pomquet river but there is limestone in
different places We might suppose Pomquet River ^{to be} the

Cy

Sandstone

Mountains
Lakes

Japan

North Japan
South Japan

Harbour of
Yamaguchi

Shimonoseki
Ankyou-shi
Fuzumi

Yamaguchi

West Japan
long mt. range

Local from Ankyou-shi
Japan
Lakes
Mountains

drift on bottom coal
sandstone
limestone

grey sandstone
dark red sandstone
grey sandstone

grey sandstone
dark red sandstone
dark red slaty

limestone
greywacke rock
greywacke slate