

Fraser Mine  
Albion Mines

30 May 1860

My dear Sir

I received yesterday  
your note of the 17<sup>th</sup> inst., and a few  
days before Mr. Murdoch McPherson  
gave me your two pamphlets, which  
I have read with much interest, and  
for which I am much obliged.

I have packed up a small box of  
fossils which I hope to send to you  
on the next trip of the Lady Head;  
but I have taken the advice you gave to  
the Literary Society in Halifax, and not  
sent away specimens of which I have  
not got duplicates. I will also send  
a sketch showing their relative positions  
and

a description of my researches, since I returned here, and you can alter, and make what use of it you please.

I shall hope to get from you the proper names of the different fossils wherever I have incorrectly named them so that I may correct my own specimens. I was on to the States in last March and took a few specimens which I gave to Dr. Newberry at the Smithsonian Institution, but en passant I showed them to Agassiz at Cambridge. He told me the shales from the McEllan brook had scales of the "Holopterychius", and "Diplopterus" fish, and other ganoid scales: the large teeth from Mr. Hay's coal mine (back of New Glasgow) were "Diplodus" and other teeth belonged to other fish: that I had the fossils of four different kinds of fish: that they belonged to the older or lower coal formation.



Mr. Hunt give a very interesting  
Lecture at the Smithsonian Institution  
I suppose you sometimes see him, and  
I hope you will remind him that he  
kindly promised to give me a copy of  
the series which he delivered there.

I hope you will have a successful  
exhibition, & all go <sup>off</sup> satisfactorily,  
at the Prince's visit.

I am glad to hear of your successful  
career at the College and remain

Yours truly  
Henry Poole

Dr. S. M. Dawson  
McGill College

List of Fossils and their localities.

From My Poole Fraser Mine

June 1860.

At Cottan's Mine, "Mc Culloch Brook" East River,

- a Fossils and fruits (one fruit marking has also been found above Stellan)
- f e b Fish-plate and fruits? together above coal
- c Spirorbis and Cypris in shale

Fraser Mine

Stellan coal from Mc Culloch brook

do from Duncan Mc Lays Adit

a Fossils from mine on Coal Brook

Stellan "

c Spirorbis "

c Cypris "

Badon below New Glasgow on West side

e b Fish-plates, scales and teeth <sup>Glyptolepis?</sup>

f do with Coprolites

d Shell in clay above mine?

Stenopectis above shells

o Inch Bat, beans freely

Mc Lellan Brook

Oil coal A. Patrick's Mine

Sepidodendron in shale

f Asteptychius scales; shale down stream

Fossils do do

c Cypris do do

Superior Canal do do

John Mc Lays Mine New Glasgow

b Fish-plate large {Glyptolepis?

e " teeth {Osteolepis? of Miller

f " scales

" plates

Others show that the same fossils are found at different localities

Below Newlylagoon on East side  
Sinclair's Cove

Oil, bit

4 Inches band. Volcanic?  $\left. \begin{array}{l} \text{down stream} \\ \text{above fire stone} \end{array} \right\}$

Small Brook Stigmaia near the point

d Shell in soft sandstone. Unio?

Small fish jaw with teeth in 3<sup>d</sup> seam

Spines, teeth, proscites, &c do

e Diploodus tooth " 1<sup>st</sup> seam

c Cypris & Coprolites " do

f Ganoid scales & teeth do

Slag? picked up on the shore.

Graphite, Salmon river near the Mill  
opposite to Salt spring -

Boghead Coal Scotland, with  
Stigmaia markings

Hemmidge Coal, Dorsetshire, England.

Ammonoite and Oyster  
Scales, Cyprinid shells -

+ Concretionary lime with fish scales

Section of Trial pit at the Basin East River

Surface Clay	6.0	
Fireclay & shells	9.9	
Ironstone	1	
Blue Clay	3	Diptyteris?
Shale & shells	4.2	Phenoptera, Neuropteris, and other markings: not carboniferous
Blue clay	3	
Blue Shale	3.10	Open bivalve shells: Unio?
Blue clay	1	
Bituminous sandy shale, 'burnt'	3	
Strong Grey rock	1.9	Fish remains in bands, such just above the shale
Bit. black shale	6 1/2	
dip 5° about North	<u>26.11 1/2</u>	

other thin bands of bituminous shale not yet examined.

Section of Bands of Bituminous Shales showing in the Bank of East river below Smelt Brook, and underlying each other to the South.

Bit. Shale No. 1	6	Cypria, Cypriolites, Fish plates, teeth, Gonoid scales; Diplolepis teeth.
Shale	1.6	
Bit. Shale No. 2	1.0	dip 10° N 30° E, Gonoid scales, bony
Shale	4.0	
Sandstone	6	
Shale	1.6	
Bit. Shale No. 3	1.10	Fish jaws with teeth, gonoid scales coprolites, Lepidodendron, Toxicites
Shale	4.0	
Sandstone	1.6	shows a downthrow fault
Shales	20.0	not proved how much
Seam of Coal	.1	if fault does not cut it off

with fireclay, then soft sandstones: shells

Unio? harder sandstones with Stigmaria  
Calamites and fecoid markings.

South of Smelt brook coarse sandstone with

hard concretionary balls, size of bullets flattened,  
 Higher up stream the 4 inch bank of  
 partially decomposed rock. Volcanic?

Section of Trial pit at Sinclair's Cove

Surface drift of clay	16.1	
Shale	8.10	
Black bat & Ironstone	1.2	
Curly Oil bat burns well	1.3	dip 10° N 20° E? not level parting
Superior do burns	.9	
Curly fire clay does not burn	.6	
Mottled limestone	.3	dip 8° N 25° E
Fire clay (pit quite dry)	1.8	
	<u>31.6</u>	