

Protes Director of Pet Slave Boy

Feet 6 an Inch

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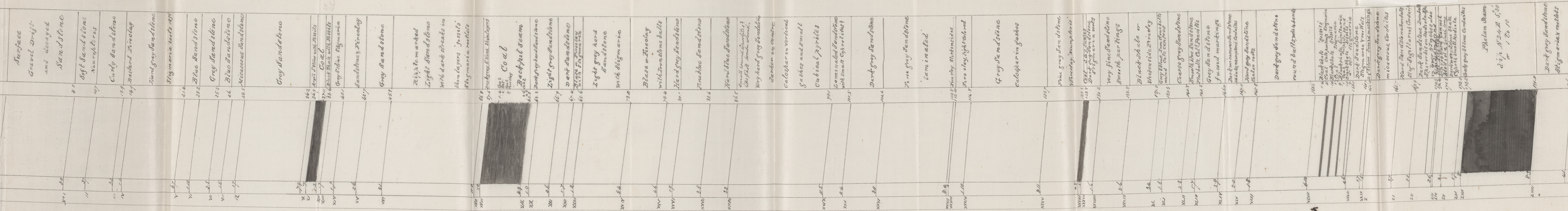
1/2

Wm. G. Smith
1859

Scale, Six Feet to an Inch.

*Section of Coal Measures in Engine Shaft
 Cape Barton, Victoria Bay*

Engine Shaft



Phelan Bed
 d. 2. N 24. E S. 30
 1 to 10
 Dark grey Sandstone
 Syngnathia nodules

Caledonia Coal Mine
Little Glace Bay Cape Breton
30 January 1867

My dear Sir

I received your note of the 9th inst.
and was sorry to find that you had not
received my former letter with the Section of
Metals sunk through in our Engine pit.

I now send you another Copy of the Section
and also of the Wing which may assist you
in examining the Photograph: the different
forms of reticulation between the ribs was very
marked, and you will observe how some of the
ribs were raised and others depressed alternately.
I have shown a sketch of the *Prodiola* shells
full size with *Spirorbis* upon them: it was
strange how the *Prodiola* decreased in size as
we descended in depth Section 55 contains
myriads of *Cypria* shells in thin wavy laminae
along with the small *Prodiola*. *Lepidodendron*
were the only vegetable fossils that I could make
out in these shelly bands.

I also enclose copies of two sections of
Coal measures in this District made up
from Lesley's plans and my own explorations.

No 1 commences at the Southern Head between Little
Glac Bay and Singan Harbour and extends as far
as the Head of Big Glac Bay. No 2 is from
the Ferry at Big Glac Bay across to the head of
Cowl Bay. By this mail I also send my copy of
Bourinot's "Prospectus" (which I wish to be returned)
as it will more clearly show you the position
of the several coal seams. I am not satisfied
in my own mind that the McQuay, McDonald,
Thelan or Wayland, Bridgeport and Singan are all
one seam. The "Saddle" at the southern head of
Cowl Bay has not been traced across the Road from
Big Glac Bay leading to Sydney. The Tracy seam
has not been traced inland, and none of the
measures proved on the anticlinal axis of the
Saddle with opposite dips as they ought to do
south-west of Sand Lake where the coal measures
have not been disrupted or removed.

My time is fully occupied in getting this Mine
underway and making two miles of Railroad to the
new Harbour being made in Big Glac Bay, so I
have no time to geologize, or I should like to
assist in working out the conceptions of this
Coal field. Small seams are being worked
at 2 miles from Sydney on the Mine Road and
at 6 miles from Sydney near Grand Lake; both

seams dip between north and east; so they must
render our coal measures considerably, unless
there are other upheavals in this coal field.

I am not aware of any "Faults" having been
found in our coal seams: there are a great many
small rolls, which as far as I can learn are
all in the pavement. At the Block house seam
there are "jashes" in the main seam which are
filled with hard coarse quartzite; I do not call it
sandstone, as I could not see any cleavage or bedding
planes: they may be one or two feet wide at the roof
of the coal, but I understand that they thin out
before reaching the pavement; so would seem to
be cracks filled with sand from above.

In clearing the woods, I collected several Helix
shells which had been burnt partially; and some of
the animals shewed perfect casts similar to those
found in the "Brookfield" Limestone near Euro, except
that they were changed into a hard black brittle
matter: they interested me, and I thought the fact
might be so to you. If I can give any other
information that you may require, that is in my power,
I shall be most willing to do so. When the Plans
are published I hope to get a copy of Sir W. Logan's;
to accompany the Report, which was forwarded
to me. I hope you will get the new Edition out

in good time, and find it repay you for all your
trouble: there have been wonderful strides made
in the development of Nova Scotia mines, since
you left the Province.

I am sorry there is no prospect of
seeing you in this part of the world during
the next summer

I remain,

Dear Sir

Yours sincerely
Henry Poole

J. Dawson
McGill College

Proles
Lester
Roster

N^o I

Section of Coal Seams compiled by Henry Poole from Professor Leffley's Reports, and Mr Lyman's Surveys, from the Southern Head or centre of the Basin, north of Little Glace Bay C.B. on line of general dip, Course South 22 West

From centre of Trough, (Southern Head) in descending order	Feet	In.	Depth	Perpendicular Difference Footm ^{ts} to Favement
Top coal	1	"	100	100
Shut Vein	8	"	165 1/2	65 1/2
Cannel	1	6	187	21 1/2
Cannel	"	1	213 1/2	26 1/2
Coal	"	1/2	350 1/2	137
Coal and Black Shale	"	2	357	6 1/2
Cannel	"	1	443 3/4	86 3/4
Cannel	"	6	463 1/2	19 3/4
Coal Bat and Coal	"	7	605 1/2	142
Bitum ^{ns} Shale & 1 Inch Cannel	1	1	700	94 1/2
Harbour Vein	5	"	720	20
Coal	"	8	729	9
Coal	2	"	745 1/2	16 1/2
Coal	"	1/2	857 1/2	113
Coal (at Killins Gate) (St. Poole)	1	"	932	74 1/2
Coal (at Boutitters Gate)	1	"	995	63
Coal (Boutitters Old Pit on Shore)	2	"	1030	35
Coal in Engine Pit Section N ^o XI	1	2	1090	60
Back Pit Vein " XVIII	4	"	1114	24
Coal in Engine Pit " XXXVI	"	5	1180	66
+ Phelan Seam "see other side"	8	"	1231	51
Coal in Little Glace Bay Brook	"	4	1288	57
Poff's Seam	5	4	1406	118
Seam called Spencer	3	"	1513	107
Coal seams	47	"		

Cow Bay C.B. Basin, Section Line North 13 East
 "McSymons Report."

	Coal	Seam	
Brought forward from centre of Basin Southern Head, to Thealan Seam, on Little Glac Bay Brook, assumed to be the same as McCauly McDonald or Thealan			1231
Metals	6	"	200.0
Spencer McCury	2	8	50.0
Metals			50.0
McCury Long Beach Cow Bay McThail or Ross Schomer Pond, Little Glac Bay, Widows Southern Head	5	8	
Metals			87.0
Northern Head of Cow Bay	1	"	
Metals			12.0
Northern Head of Cow Bay	3	.	
Metals			47.0
Seam 2, 3 to 1.9 Average	2	"	
Fireclay			250
Metals			75.0
Seam	1	6	
Metals			98.0
Long Beach bed below McCury 350 ft.	3	"	
Unexplored			24000
Tracey Seam			
Coal $\frac{1}{2}$ in 3.1			
" " Clay 0.5 $\frac{1}{4}$			
" " Coal 0.7 $\frac{1}{4}$	4	1 $\frac{1}{2}$	
Coal seams	28	11 $\frac{1}{2}$	29925
add Coals			28.11 $\frac{1}{2}$
			3021.5 $\frac{1}{2}$ 3021 5 $\frac{1}{2}$
Total Depth as far as traced at present			4252.0 $\frac{1}{2}$