

As I have recently had much experience in the
examination of eggs and much trouble
has not been experienced that I propose
the use of the usual method of placing the
side and attaching it to glass of melted wax.
Then placing the other side until supported this.
The best method is to lay the specimen on
on the glass under the specimen held over a
lamp and the wax melts and then
press the side firmly down till all air
bubbles are expelled. I use a magnifying glass
of 80 to 100 linear and find cloud light the
best when artificial light is used. I place
ground glass under the specimens. In the

about 130 miles with an extreme breadth of about

Can afford such specimens I have
just the the frozen chuffs of
the most young and numerous in
Canada when found excellent
specimens. It requires some parts & often the
splinter but when obtained the regard to
the best slices, Calcareous layers with soft
fibre wood - must be stored on the paper but
off and ~~from~~ grow flat & ~~others~~ & slip -

Under the impression that any facts relating to the formation which has afforded the interesting reptilian fragment recently described in the Journal of the Academy of Sciences by Dr Leidy will prove interesting I hereby came to communicate the following results of microscopic examinations of the Coniferous wood referred to in my note appended to Dr Leidy's paper.

I may premise that Prince Edward Island which extends in an east and west direction about 130 miles with an extreme breadth of about 35 miles, consists almost entirely of bright red sandstones similar to the matrix of Dr Leidy's fossil, with occasional bands of conglomerate, red clay and arenaceous & concretionary limestone. Over a large part of the Island these beds dip at small angles to the northward but there are a few tracts where the beds incline to the southward and south-east. These red rocks in their mineral character closely resemble the ^{new} red sandstone of Cornwallis and other places in Nova Scotia and Dr Jerns in his report on the geology of P.E. Island has described an outburst of trap at ^{St John's} Island in the northern part of the Island which still farther increases the resemblance. There are however a

few places in which beds occur that have some analogy to the upper parts of the coal formation of Nova Scotia, and it is in one of these localities that the coniferous wood in question chiefly occurs, along with a few other vegetable fragments for the most part very imperfectly preserved. Some interest therefore attaches to these vegetable remains as affording almost the only means of ascertaining whether these older rocks of Prince Edward Island are equivalent to the upper coal formation of the mainland of Nova Scotia and New Brunswick or are the oldest members of a newer deposit.

1 Coniferous wood from Gallus o'fallons Point West side of Amel Bay. At this place which I visited in 1842 the following beds appear in descending order the dip being to the ESE at angles of 6° to 8° . Red and brown sandstone, ^{with laminae of large coniferous wood} grey sandstone ~~and~~ ^{with} vegetable fragments one of the striated like columns but with out joints. Grey & brown clay & soft shales, brown sandstone with large trunks of shaped trees one of them 3 feet in thickness. In an article published at the time in a local paper I said that I was very unpepy with the opinion that these beds might belong to the St. John's and I gave in my paper perhaps a sum of money, adding that he had seen a specimen of which I was certain was a very unpepy evidence.

My specimens of the wood from this place are perfect shaped and of a dark wood brown color. They are much preserved in the structure

The medullary rays and the spines are filled with flesh-colored phosphate of lime. Under the microscope transverse slices show a somewhat dense texture of quadrangular cells in rows and with pyramidal thin medullary rays. Longitudinal slices in the direction of the med ray show parallel elongated cells med rays not sharply marked and in a few places traces of a articulated structure on the of the araucarian type on the axes of the cells, with only two rows of reticulations on each cell.

2 Specimens from De Lulle & Chapand. At these localities the only rocks seen are the always red sandstones but the conifer wood is found only in loose fragments on the surface and I could not succeed in tracing it to the volcanic rocks. I & Jones & Hoff for the report was greatly unsatisfied. From the large grassy hill south about the fields and the several small of the hills, there is doubt that it is near a very near its original site. These specimens are dense and well preserved and present cellular texture similar to that of the fragments from yellow pine. The upper has been too much injured by the action of the air or decay of the wood to permit to make observations on the cells to be seen.

3 Specimen in the cells of the lateral slices of the pine from the south side of the island. This specimen is from the red sandstone which still at 2

attached and is remarkable for the curvature.
That it is penitens & numerous verrucosa
holes. ~~Verucosa~~ penitens penitens when the word
has been of Verucosa or of Gyrophysa lamm.
In the present state they more resemble the
work of the latter. Some parts of the specimen
retain their structure in a very perfect state.
This of the same character with that of the
specimens from Gollus penitens and shows
one or two rows of reticulation on each cell.

All these specimens probably belong to the
same genus and perhaps to the same species of
amphibians trees, and they all differ from
the amphibians most which occurs by almost
in the upper end penitens. I have slices
of the latter for various parts of A B C D
V C B some of the for the hybrid members
of the end penitens in the penitens and
all are characters of water cells used with
3 or more rows of penitens and a most curious
medullary texture than the P S G specimen —
In the branching of the cell walls. Upon few rows
of cells and penitens penitens — the P S G
specimen that does of the arm of the penitens which
a tendency to divide from ^{that type} ~~the~~ as shown in the
end penitens showing that of the ordinary times. In
so far as the penitens are the trunk of the penitens the least
shown that the dorsal side of P C belongs to a penitens
with the end penitens the penitens but with the least penitens penitens

Superior to penitens
on the side of the penitens

to those of the Coal Formation. They therefore afford
no proof that these lower members of the Red
Sandstone Formation of Prince Edward Island
are of carboniferous date, but would rather tend
to assign them to the same period with the over-
lying red sandstones. which have preserved the remains
of the At the same time the
occurrence of these plant-bearing beds at the
base of the New Red Sandstone renders it probable
that no sudden or marked physical changes
intervened between the close of the carboniferous period
and the

