

Nov 26, 1883

Dear George,

I'm writing out a few notes on the geology of the C. P. R., several questions occur to me which you can no doubt answer:—

One is as to the precise age of the beds holding the Brown Coal at Medicine Hat and Twenty Mile Post. At the latter place they seem to include conformably Gray Gypsiferous beds and others holding *Orthis*, an oval shell? *Centrona* and fragments of various shells? *Ammonites*, as well as bones of Saurians. There is no precise means of knowing however if the coal at 20 mile just corresponds to any, say the lowest, bed. What is this oval *Centrona*-like shell so common on the West?

at Medicine Hat. The Medicine
 Hat beds have the same
 oval ^{a Cytherea} ~~trilobes~~ like shells at their
 base, and over them a
 coarse sandstone or pebble-
 rock holding traces of a
 Laurian apparently of genus
Dalmanites of life, and which he
 regards as Laramie. I could
 find no determinable plants at
 either place. McCannel?
 which calls the 20 mile part
 beds St Pierre; but where then
 is the Fox Hill? ^{May the Med Hat only} ~~appear there?~~

Perhaps you may be
 able now to make more
 definite statement as to
 the horizons at which coal
 beds occur in the region.

The Calgary sandstone
 seems to have some of the
 same leaves which Deloye
 found in the Souris beds.
 Are they probably of the

severe age. The Shakes agreement with
the Coligny text. In the case of the
same children - like shells that occur at
Medicine Hat, in fact the underlying
Shakes at Coligny tend along the
the underlying Shakes at Medicine Hat.
But, for instance the Coligny text
may be the reverse of the two. How
far any facts in this respect?

What is the age of the text
said & occur at Medicine Hat
the places of Coligny. Are they
older or newer?

Nov 26, 1882

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I am in any fact on Science & Science
Phenomena tell them there you particularly
in Science in "Science".

If you have any facts bearing on
these questions or things they may suggest
I shall be very glad if you will check me
a note any time before April 1st that
I may anticipate me.

In replying the mechanism versus other
me a few days ago about the theater yesterday
of some spots which present abnormal magnetism
phenomena. My apartment & the I be heard
at the junction of the Lamentation and newer
roads, but I advised him I copy & you in
I refer to your Smith's reports.

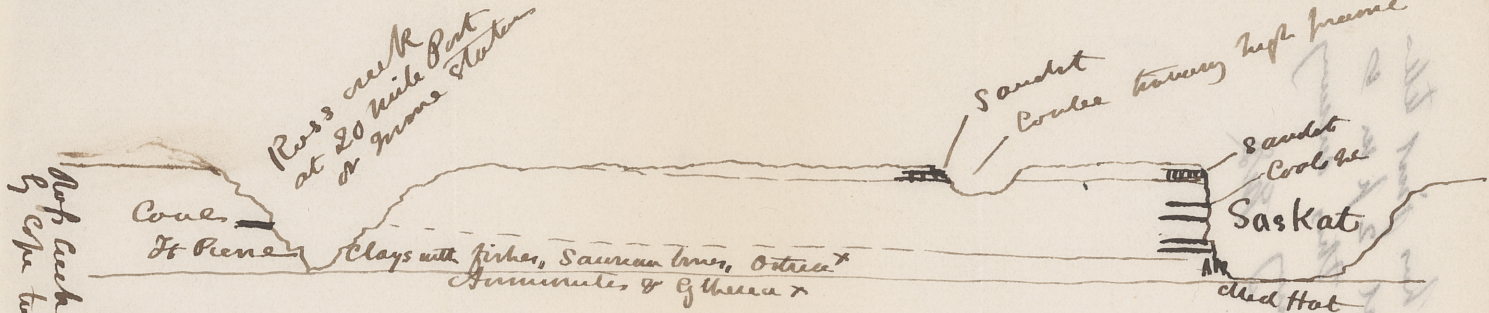
B. Your valuable letter
 of the 14th arrived just
 after the above was
 written. I note what
 you say of Medicine that
 cures, but somewhat
 doubt that they can
 be under Power. That
 is a good kind of Power
Medium at Cypres Hall.
 What relation can it
 have to the plants ^{& cures}
 found there. Might not
 some light be thrown on
 the possible uses of
 some of the plants? Please
 inquire as to this. If
 Cape is to do anything

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with the Survey team, I wish he would
look at my Diurosaur (Archaeopteryx) from
Medicine Hat. It is in one of the upper
Cores. Currie knows where. The Quebec
Dump in the Rockies is also a great find.
Since we all go over as to these & similar
things for the Geological in Spring, either as far
yourself or to add to my notes. ^{They will attract} _{judges & members}
I have not read Serge's Book; but
from what I have elsewhere seen, fancy I might
agree with him as to the ore but not as to
the remedy. We hope to see Rankine before
we leave.

Over your faithfully
M.D.

2009/1/15/84



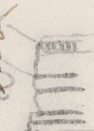
*? What species of Ostrea, Cytherea?
Ammonites etc. See the Council's
specimens.

The above represents my notion of the relations of the
Med Hat & Ross Creek beds. On the top of the Prairie
in a Coulee several miles east of Med Hat I
saw the outcrop of the Upper Sandstone apparently
at a higher level than on the Saskatchewan. I fancy
it runs out a cup out before reaching Ross creek.
May not the Med Hat beds be a Fox Hill? A very slight
dip might run them past out before reaching Ross creek.
I very much wish to have before spring a lot of the shells at
Saskatchewan & Ross creek. Please send to the

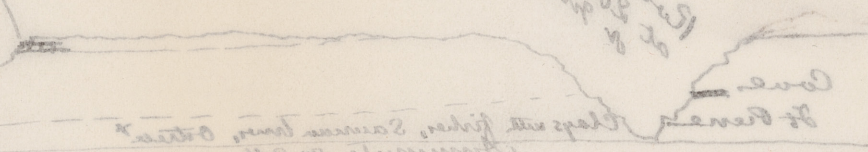
I forgot to say that one of the
beds of Dawson's "Depot" from
Ross Creek which Dr. Goss saw, was sand
by which to belong to a large fish.

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May 28th W. S. Ruckelshaus has just tele-
 graphed his arrival at 2 p.m. &
 hopes to be with us this evening
 a to-morrow morning.



200 ft
 200 ft
 200 ft



200 ft
 200 ft
 200 ft

X! what piece of bottom, 10 ft
 10 ft
 10 ft

The above represents my water after the relation of the
 West that of the creek beds. In the top of the
 in a circle several miles west of that West
 down the watershed of the Upper Canadian
 at a higher level than on the watershed. I
 out on a scale not before reaching the creek.
 but the West that was in a few feet. I
 depth from them part out before reaching the creek.
 of deep banks west to have before spring a lot of shells or
 watershed & the creek. Please send to me

200 ft to reach to a water pipe.
 200 ft to reach to a water pipe.
 200 ft to reach to a water pipe.

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