

## GEOLOGICAL NOTES.

[The bearings refer to the magnetic meridian.]

- 61-61. The section across the Huronian rocks seen on the Pic River, shows a variety of dark grey, hard, siliceous and argillaceous slates, dark green massive and schistose dörrites, crystalline reddish dörrites, grey and greenish fine grained quartzose mica-schists, and fine grained hard grey imperfect gneisses. The general strike is south-westward.
62. Dark green dörrite and slate-conglomerate, with a hill to the northward consisting partly of grey and white mica-schist.
- 63-63. The Huronian rocks exposed along the Black River consist of dark greyish green and reddish dörrites (some of them porphyritic), red and grey granites, conglomerates, fine grained mica-schists, dörrite, silicate, argillaceous, hornblende, chlorite, felspathic and epidotic schists and imperfect gneisses, similar to those on the Pic River. The general strike is W. S. W.
64. Greyish and reddish gneiss, occasionally interstratified with bands of dark hornblende schist and very light grey gneiss.
65. Fine grained dark green hornblende schists, having the same strike as the adjacent gneiss.
- 66-66. Hornblende, silicate and chlorite schists. Strike N. N. W.
67. Hornitic schists with dykes of granite and trap, and veins of calcspar and quartz containing yellowish-green pyrite and other sulphides, with some galena and malachite.
68. Michipicoten Island and the extremity of Lake Superior consist of angular blocks, conglomerates, sandstones, dolomitic tufts, &c., belonging to the Keweenawan series.
69. Light red granite of medium texture, flanked on the east by hornblende schist.
70. Soft green slate holding layers and patches of felsite and pebbles of reddish granite.
71. Greyish slate with thick beds of reddish siliceous rock; also impure hematite interstratified with grey siliceous layers.

## Geological Survey of Canada.

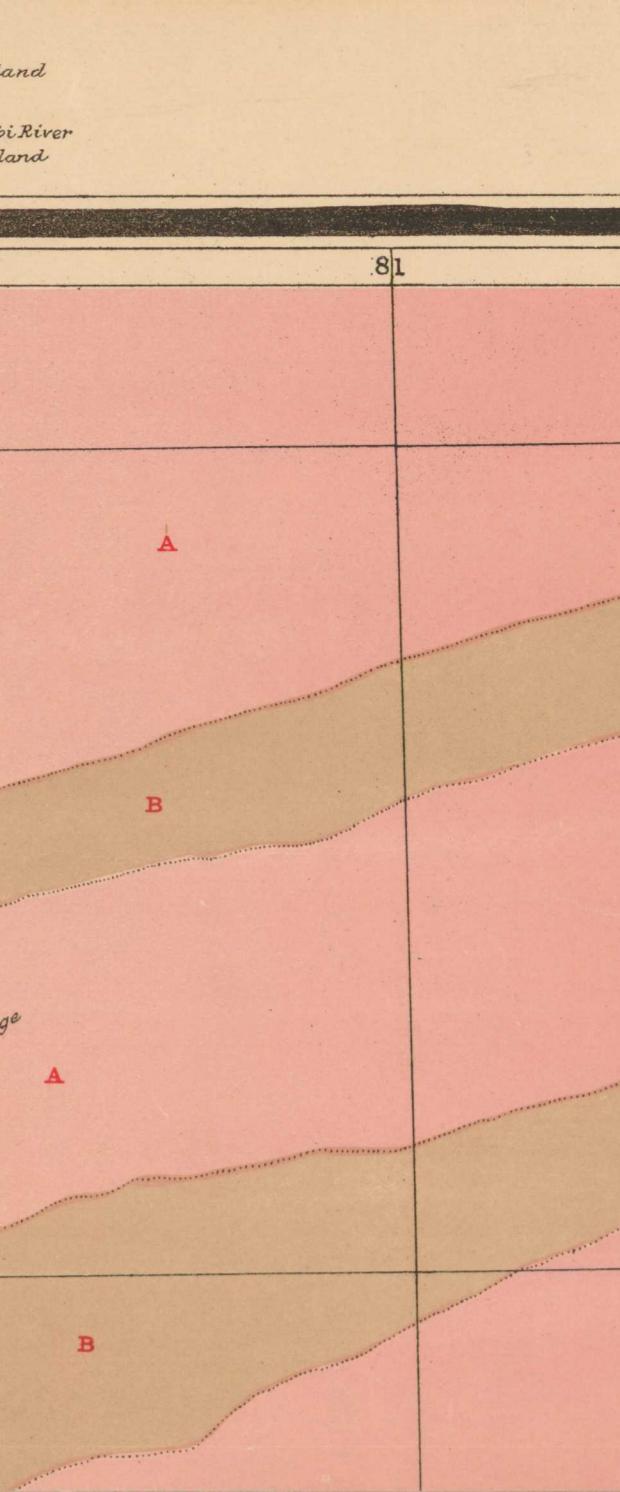
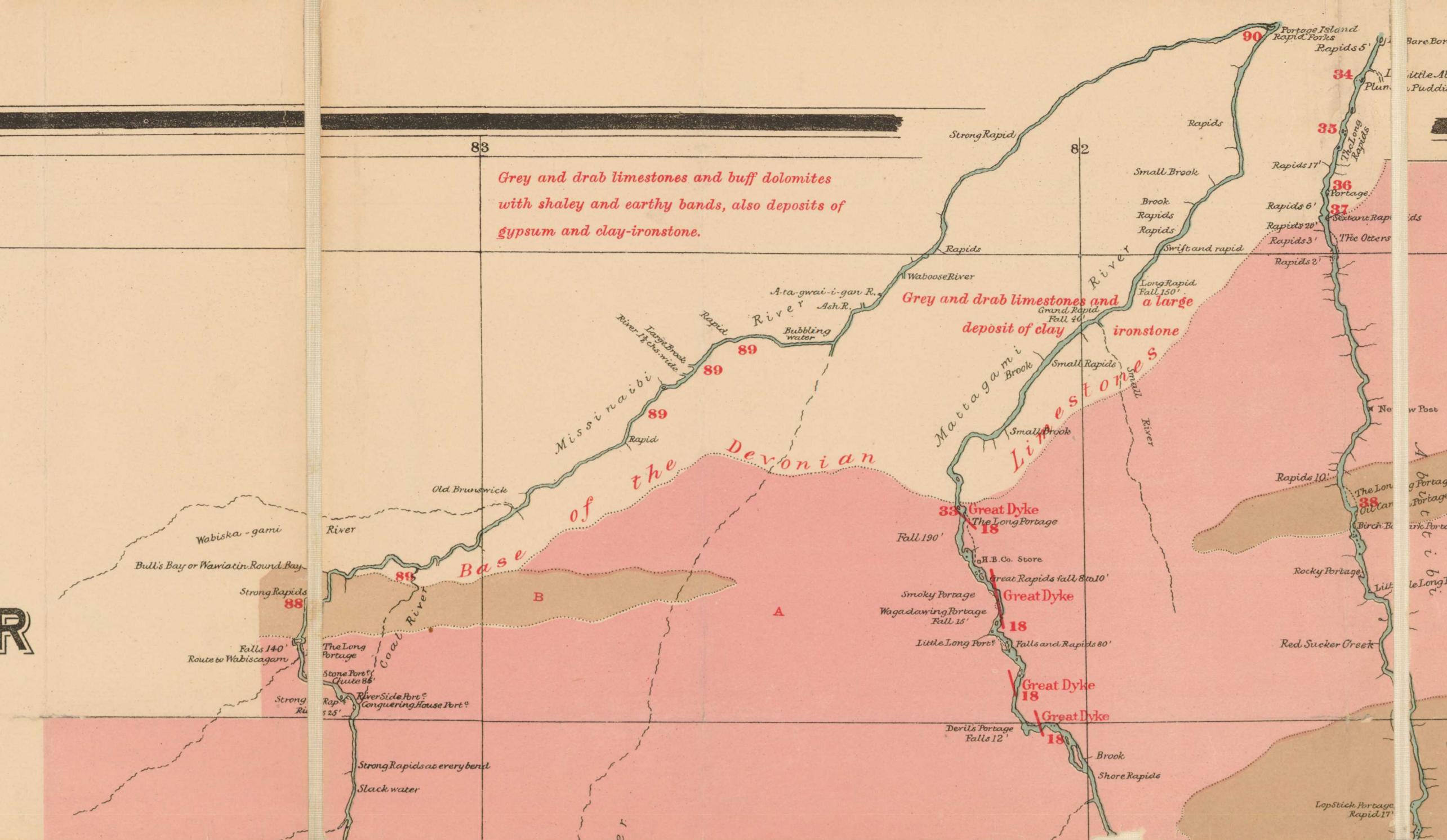
Alfred R. C. Selwyn, LL.D., F.R.S. & Director.

### MAP

#### SHewing APPROXIMATELY THE GEOLOGY

### BASIN OF MOOSE RIVER AND ADJACENT COUNTRY.

TO ILLUSTRATE DR. BELL'S REPORTS OF  
1875, 1877, 1881.



## GEOLOGICAL NOTES.

[The Bearings refer to the Magnetic Meridian.]

1. Foliates, generally ribboned purple and green; some parts grey and siliceous. The general strike is parallel to the course of the East Branch of the Montreal River. It is associated with a beautiful olive-coloured brecciated chert.
2. Quartzites, mostly light grey, and in places appearing the character of sandstone, containing thin bands of felsite and pebbles. Some portions are leucocratic, some greenish, and others dark grey. At White Beaver Lake the surfaces of the beds occasionally show ripple-marks.
3. Massive crystalline greenish grey dörrite, mostly of dark shades.
4. Dark greenish grey argillaceous slate-conglomerate; pebbles mostly of red syenitic granite, with some of white quartz and green schists.
5. Dark hornblende schists, full of veins and masses of grey pegmatite; all cut by veins of extrusive quartz.
6. Great alternating masses of grey quartzite and dark-brown dörrite, both of which are frequently of a coarse crystalline character, the plates consisting of greenish granular quartzite and white dörrite.
7. The Huronian series, mostly rounded and crumpled together in great bunches. These massive beds are interstratified with sandstone and clay-shale. The dip is from E. to E. N. E., at an angle of about 30°.
8. Bell of quartz veins with copper pyrites and crystalline specular iron. Run N. 70° W.
9. Fine grained greenish grey calcareous dörrite.
10. Red and grey syenitic granite, mostly coarse in texture.
11. Dark hornblende and silicate schists.
12. Unstratified greyish green dörrite with disseminated grains of iron pyrite, in some places holding vesicles filled with calcspar and white quartz.
13. Bedded reddish quartzites, mostly fine grained and interstratified with greenish siliceous slates.
14. Dark green serpentine weathering dull white, strongly magnetic and containing grains of chromic iron.
15. Mossy light green felsitic volcanic ash with dark and light specks.
16. Soft greenish grey magnesian rock, rudely stratified and thickly intersected in all directions by calcspar strings.
17. Hornblende and dörrite schists dipping south-eastward at high angles.
18. Dykes of crystalline dark greenish grey dörrite.
19. Dark grey hornblende schist. Strike S. 75° E.; angle northward, 65°.
20. Grey mica-schist, chlorite and greenish grey siliceous and dolomitic schists, with rusty surfaces and cut by quartz veins.
21. Siliceous grey slates, running N. W.
22. Fine grained greenish grey quartzites, followed, half a mile to the N., by bluish grey clay-shale, and further N. by more quartzite.
23. Stratified greenish grey crystalline somewhat schistose dörrite, cut by irregular quartz and calcspar veins. The dip is northward at an angle of 80°.
24. Grey siliceous slate, grey felsite and dark bluish grey clay-shale. Dip N., angle 60° to 70°.
25. Green and grey mica-schist and talcoid schists. Dip N., angle 60°. Cut by a great dyke running N. and S.
26. Massive grey semi-crystalline steatite, holding grains of specular iron, and cut by small veins of bitter-spur.
27. Massive and slaty greenish grey siliceous schist.
28. Dark grey quartzite and massive light greenish grey siliceous schist.
29. Soft greenish grey dörrite, cut by a great dyke, running N. and S.
30. Soft greenish grey talcoid schists. Strike N. 55° W.
31. Greenish talcoid schists, followed by greyish green chlorite and dörrite schists.
32. Dark greenish grey hornblende schist, with some chlorite schist. Strike N. 55° to N. 70° W.
33. Laurentian gneiss begins at the foot of Davis' Rapid and is found all along the river to the foot of the Long Portage, which appears to mark the southern boundary of the Devonian area.
34. Soft dark early slate.
35. Soft yellowish and reddish grey porous limestone.
36. Greenish grey dolomitic limestone, cut by dykes of dark compact dörrite.
37. Greenish dolomitic limestone, cut by dykes of dark compact dörrite.
38. Dark grey crystalline felsite, cut by dykes of dark compact dörrite.
39. Greenish calcareous felsite, mica and hornblende schiste.
- 40-4. Tendr. grey mica schists with rusty partings.
41. Fine grained greenish grey calcareous dörrite.

Scale 8 Miles to 1 Inch

DRAWN BY L.N. RICHARD B.A.Sc.

1883.

SCALE OF COLOURS

A Gr. B

LAURENTIAN. GRANITE. HURONIAN.

12. Large greenish grey mica-schist.

13. Massive green dörrite schist.

14. Massive and slaty dörrite and grey calcareous schists with traces of copper.

15. Massive red and grey granites of medium texture and good workable character.

16. Cliff 600 feet high of greenish grey dörrite with reticulating strings of calcspar and quartz.

17. Glossy green mica and hornblende schists, yellowish-grey slaty quartzite, massive crystalline green dörrite, dörrite schist, soft calcareous grey mica-schist and brittle reddish yellow siliceous or cherty schists.

18. The N.W. extremity of Cap Chappé a low patch of thinly-bedded red and grey sandstones rests unconformably upon these rocks.

19. Small patches of red shaly volcanic breccia resting upon gneiss.

20. Massive, even and rather finely grained pinkish-grey granite.

21. Green chlorite, grey felsite and fine grained mica-schists, with dörrites and gneiss.

22. Chlorite and dörrite schists with masses of felsite-coloured granite and gneiss.

23. Fine grained mica-schist pinkish-grey calcareous schist.

24. Green hornblende schist with pebbles, chlorite and dörrite schists.

25. Narrow bands closed to Huronian, and consisting of micaeous, hornblende, chlorite, siliceous and felsitic schists.

26. Dark grey siliceous slate and dark green finely crystalline hornblende-schist, with greyish mica-schist towards the gneiss on either side.

27. Siliceous felsite and mica-schists, with quartzites and dörrites.

28. Dark hornblende and mica-schists with large veins of light-coloured granite running with the schist.

29. Bedded pyrites, from 1 to 6 feet in thickness, in boulder clay. (See p. 46 Report for 1877-78.)

30. Gneiss in the N.W. band begins at 5 miles, and is last seen in the S.E. bank at 16 miles below this point. It is about 10 feet thick, and is associated with earthy greyish and buff-coloured magnesian limestone and calcareous shale of Devonian age.

31. Siliceous hornblende-schists.

32. Red and reddish hornblende schists with patches of grey amygdaloid, containing calcspar, fluorite and apatite.

33. Rather dark-coloured hornblende schists with a general westward strike.

34. Lead and copper ore discovered by Mr. Barron in Huronian rocks.

35. Huronian rocks striking north of east, probably near their junction with the Laurentian.

This map has been reprinted from a scanned version of the original map.  
Reproduction par numérisation d'une carte sur papier

