

almost entirely of white and red pine, much of which is of inferior quality. In the valleys and slopes of mountains the soil is exclusively sand, formed by the disintegration of gneissoid, or laurentian rocks. Much of the forest from time to time has been burned. The *brûlés* are neither large nor continuous, as the swamps arrest the progress of the conflagrations, so that the summits of the hills are mostly burned and the slopes green. There are a few small patches of alluvial formation along the River Madawaska, consisting of pure sand, and therefore of little worth as farms. This is decidedly the most sterile and uninviting tract that I have ever seen. I do not believe that there is enough of arable land in the whole extent to make one farm. The wonder is that any one would sub-divide it for settlement.

That portion extending from Cotton's Creek eastward to North Canoto is also very rocky and broken, mostly covered with pine, and only fit for lumbering purposes.

That part, extending from Cotton's to Lackie's Creek, and thence to the rear of the township, is the only tract available for settlement, the greater part being already occupied. The soil consists of a rich sandy loam, with indications throughout of crystalline limestone. The surface is undulating, and in some places rocky and precipitous. It is covered with a luxuriant growth of all the varieties of hardwood indigenous to this country. Cedar swamps are also occasionally to be met with. From an exploration I made along the line between Abinger and Dunbigh, I find this tract extends to the Frontenac road. Through this tract only a few scattering pines are here and there to be met with, principally on the banks of lakes or along the valleys of creeks.

The other patches of hardwood along the Madawaska are occupied.

The pine and hardwood tracts are respectively designated on the accompanying plan, the *green* border shewing the pine lands and the *purple* the hardwood.\*

I have the honor, &c.,

(Signed),

J. L. P. O'HANLY.

P. L. Surveyor.

#### APPENDIX No. 46B.

#### CAMP TOWNSHIP OF DENBIGH,

25th November, 1863.

To the Hon. Wm. McDougall,

Commissioner of Crown Lands.

SIR,—Having completed the examination of the township of Miller, I beg leave to report as follows:

That portion of the township extending eastward from the western outline to Brulé lake, and thence northerly to the township of Matawatchan, and south-easterly to Lake No. 10, from thence easterly to Mosquito lake to the southern outline of the township, comprising the 1st, 2nd and 4th concessions, and a small part of the remaining concessions, is covered with all the varieties of hardwood known in this climate, maple predominating, intermixed here and there with hemlock, spruce, &c. Pine is rarely met with in this section, being confined to small clumps or scattering trees on the promontories of lakes, the valleys of streams and the abrupt sides of hills, except one grove between Brulé and Indian lakes, comprising about 1,100 acres. The surface here is undulating, becoming rugged and precipitous in the vicinity of lakes. The soil is generally a mixture of sand, gravel and clay, and according to the preponderance of either is productive or barren. Where hemlock predominates, it is either pure sand or rocks.

It is pretty well adapted for settlement, particularly that part enclosed by the *red dotted line* on the accompanying plan, and is mostly occupied by resident or intending settlers.

Eastward of the aforesaid line, extending from Brulé lake to the northern and eastern outlines, the surface is mostly clothed with a dense pine forest, white and red species, the former largely predominating, and hemlock.

The monotony is here and there broken by groves of hardwood, the principal of which are exhibited on the accompanying plan, the remainder forming the crests of mountains, small and stunted by a scanty soil. This section of the township is very irregular, rugged,

\* The colors mentioned in this and the following Report refer to Mr. O'Hanly's plan, of Record in the Department, not to the accompanying Map of the district.