

the result of my observations, I beg now to submit the following Report, together with a plan of the property, shewing its position with respect to the Railway, distance from stations, &c.

The property consists of lot number two, (No. 2) and the east half of lot number one (No. 1) in the Fifth Range of the Township of Orford, in Canada East; and comprises three hundred acres of land, besides the right of way (thirty feet in width) from the property to the Grand Trunk Railway, all held by you in fee simple. Also a small lot consisting of four acres at the nearest point on the Grand Trunk Railway which has been secured by a promise of sale; and is intended for a switch or siding, and depot for shipping the produce of the quarries.

The lots on which the slate occurs, are situated about six miles from Sherbrooke, and three and a half miles from Brompton Falls, at both which places there are stations on the Grand Trunk Railway. A good road running along the Township line between Orford and Brompton, at present affords access to the lots; but it is intended, when the quarries are brought into full operation, to construct a new road (part of which is already built) upon the said right of way, direct to the proposed new depot, as shewn on the plan. This road will run nearly in a straight line between the two points, and will have an easy descending grade the whole distance, which is only about two miles.

The property is underlaid by a band of roofing slate of most excellent quality, the outcrop of which has been traced along the dotted lines marked on the plan, comprising an area of about two hundred acres, but which most probably occupies the entire extent of the property. This band of rock appears to occupy the same geological position as that of the Melbourne Slate Quarry, and to be characterized by the same ~~properties~~ and conditions. The direction of the cleavage is north,  $43^{\circ}$  east, and the dip south-east, at an angle of  $77^{\circ}$ , or  $13^{\circ}$  from the perpendicular. The property is traversed by a considerable brook, the general direction of which coincides with that of the slate band. This stream, in fact, appears to pass through the centre of the band of workable slate; and cutting as it does to a considerable depth below the general surface of the ground, and affording at all seasons a sufficient supply of water for working pumps and other machinery, will be found a most valuable adjunct to the economical working of the quarries.

The ground has been tested by stripping and blasting to a small extent at three different points along the course of the stream. About eleven years ago a small quantity of roofing slate was manufactured at one of the openings on Lot No. 2, and although taken quite near the surface, has proved