

accompany this report, which, with slight additions and modifications, may be applied to your other beds. According to this estimate, \$53,570.00 will suffice to put the mine in thorough working order. The coal of the Gardner seam just referred to, rests on a thin bed of clay, ten inches thick, which in mining, is of great advantage, as the holing can be done in the clay cheaper than in coal, and thus a considerable amount of coal is saved. The floor under the clay is smooth rock.

A pit on your property 900 feet, would reach the dip of the Lorway bed, which is 6 feet in thickness (through which, in fact, all the before-mentioned seams could be worked) and at the foot a level could be driven about two miles in length, which would most advantageously command this entire bed underlying your area.

One feature of this property worthy of mention is its elevation above the sea, and I estimate that it contains at least two and a-half to three million tons of coal above the tide-level.

It should be mentioned that this district is rich in kidney iron ore. I measured the bed alongside of and parallel with the Tracey seam and found it over six feet in thickness, and it will probably yield from twenty to twenty-five per cent. of bloom iron, and several other beds of workable thickness of the same ore are interstratified through these coal measures. The proposed transportation to this district of specular and magnetic iron ore—too rich and refractory to be worked alone—from other districts, accessible by water and destitute of fuel, renders the kidney ore on this property of increasing economic value.

The shipment of your coal will probably be chiefly at present at Sydney harbor, nine miles westerly from the centre of your area. The Railway owned and worked by the International Coal and Railway Company, which intersects your area, is now in active operation, and the company have carried over it from their own mines this summer, 11,000 tons, and as I am informed, that company have entered into an agreement with the proprietors of the Gardner Mine, immediately adjoining yours on the