

will be to get a clause in the agreement, so that it will not be necessary to keep the ore, from each lot, separate, before treatment, to determine each owner's royalty. But all these are mere "trivial difficulties" and you will know just what is required and what to do. By the way I have almost forgotten to mention that the most important outcrop of this ore is on the estate of the late Donald McKenzie, and it being the middle lot, it is most important that you secure an agreement from the heirs. While you are there you might get the address of the heirs and see what can be done with them. I was informed by the neighbors that no one has heard from young Donald, the son, since the war. These however, are "trivial difficulties," and any lawyer can easily get a title. I want the title clear, no litigation, if possible, in the future. Please Mr. Milner don't tell me, that it is practically impossible to get this title but tell me approximately what it will cost to secure it.

To the humble layman of my cloth I see great difficulties in what I have asked you to do, but I rejoice in the fact that the Cameron Act has been passed and removed these difficulties. We can now sit down in our office, if we are fortunate enough to have one, and with the starting point as given above, make a description to secure a title for this or any other mineral, through the mines office, at a cost of \$30.00 plus cost of stationery and postage. Is this a sore spot Mr. Lawyer, that you are going to lose a lot of fees?

Yes, I know that some of these men of Malagash were in "France and Flanders fields" but I do not know that their birthright was confiscated. I also know that you Mr. Milner, and some other lawyers, are advocating measures that will rob many hundred miners, who were also "in France and Flanders fields," of their just rights and claims to the mineral resources of the province.

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6. Q. On reaching the coal in a shaft 600 feet deep, what size would you make your shaft pillars, width of levels? and state how far you would drive your narrow work before you laid off any rooms.

A. The shaft pillars at a depth of 600 feet should be at least 75 yards square each, and would be much better if they were 100 yards square each. I would certainly have my shaft pillars in this case not less than 100 yards square each. Width of level should be safe at 8 feet or 9 feet wide. The distance I

would drive my narrow work (beyond the shaft pillars) before laying off any rooms would be as short as the circumstances of the case would permit. I would certainly not drive them above 75 or 80 yards.

7. Q. If your roof was soft and shelly, give a free hand sketch of how you would timber it.

A. If my roof was soft and shelly, I would put my timber closer together in the rooms than usual, and on my travelling roads, in some cases I would put deals over the cross pieces.

8. Q. If you had a slope 2000 feet long, dipping 8 inches to the yard, and had a gross weight of tubs and coal=10 tons what size and quality of rope would you use?

A. On a slope 2000 feet long, dipping 8 inches to the yard, or 1 in 4.5 the perpendicular height to be overcome is $2000 \div 4.5 = 444.4$ feet. Therefore the strain on the rope of a total weight of 10 tons (no allowance being made for friction or weight of rope) is 2.22 tons; because it depends on the following proportion:

2000 feet, 444.4 feet, 10 tons, 2.22 tons. Then to find size of safe working hemp rope for 2.22 tons the rule is $v. (2.22 \times 14) = \text{circumference of hemp rope in inches}$ $v. 22.20 = 4.7$ inches circumference, not taking into consideration friction and weight of rope. But in this case I would prefer an iron or steel wire rope, the size of either of which can be readily obtained in a given case by referring to tables. Not having in memory just now the rules or formula for iron and steel wire rope, I give the calculation for hemp rope. But an iron or wire rope $1\frac{1}{4}$ or $1\frac{1}{2}$ inches diameter would be sufficient for all purposes including weight of rope and friction.

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