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METHODS OF MINING AND TIMBERING IN LARGE ORE BODIES IN BRITISH COLUMBIA AND MICHIGAN.

By NORMAN W. PARLEE, S. Can. Soc. C. E.

(To be read before the Mining Sect. on 25th February, 1904.)

The method of mining to be adopted in any particular mine depends upon a number of important considerations. Among these may be mentioned the size and attitude of the ore body or deposit, the hardness and rigidity of the ore and adjacent rock, the quantity and quality of timber available and its cost, the price of labour, and the value of the product to be mined. Generally speaking, if a narrow vein is to be worked, stull timbers are used, the limit being a width of about 15'. As the vein widens beyond this, stulls are out of the question, and another system must be adopted. The method then employed may be the square sett system, or a filling method, except in case of soft ore, when a caving system may be followed. There are a great many modifications of all these systems to suit circumstances and conditions, and it is the intention in this paper to describe and discuss them as carried out in those mines in which the writer has worked, and in which he has become more or less familiar with the methods in successful operation.