

masses of which occur absolutely pure and free from gangue, testifying to the extraordinary richness of this mine. The vein is about three feet wide, being nearly perpendicular, cutting the rocks in depth, though coinciding in direction. Wall rock, a soft white limestone, saturated with green carbonate on one side, and chloritic schist on the other. The gangue of the vein is quartz and calc spar; and the enclosing rocks some times present an extraordinary combination of quartz and felspar, giving it the aspect of an amygdaloid trap, and assimilating the conditions to those usually accompanying true or fissure veins, to which this interesting deposit is on other grounds manifestly allied. This mine is now being vigorously worked under the able superintendence of Capt. Francis Bennett. A shaft has been sunk upwards of eighteen fathoms. An adit cuts it transversely at a depth of seven fathoms, and at ten fathoms deep levels have been driven on the course of the vein about ten fathoms in total extent. The shaft yields two tons of eight per cent ore per fathom, and one of the ends now produces an average of one ton and a half per fathom of forty per cent ore. The exhibitor also shows a box of ore from the mine dressed to thirty per cent. The most extraordinary variety of ores are found in this mine, few of the ores of copper being unrepresented, and native copper also occurring together with specular iron, manganese, &c. It is situated about three miles from the Richmond Station of the G. T. Railroad.

No. 13. ELDORADO COPPER MINE. Ascot, Lot 3, Range 8. Exhibited by W. S. Hunter, Esq., for Capel, Hunter & Pierce.

Large blocks of Iron and Copper Pyrites, almost totally free from gangue, and containing about eight per cent metallic copper. This deposit has been only very recently discovered, and already bids fair to be one of the most important in this rich mining district, the general features of which have already been described. In the present case the ore-bearing bed or vein is at least six feet wide, and has been proved to extend at least five-eighths of a mile on the surface. We are unable to state the average metallic contents, but a large proportion of the mass consists of such pure and unmixed ore as the specimens exhibited, and from the large admixture of sulphuret of iron will probably smelt very readily.—This highly promising mining location is only about three quarters of a mile from the railway.

No. 14. A miscellaneous collection of ores and useful minerals from the neighborhood of Melbourne; lead asbestos, including soap-stone and marble, exhibited by Mr. John N. Gee.

Nos. 15 & 16. COLDSRING MINE, MELBOURNE, Lot 6, Range 2, exhibited by Thomas Mackie, Esq.

Magnetic iron ore and vitreous copper ore, from the same location, the former occurring in an extensive bed between quartz ore,