

REFERENCE TO PLAN.

This ideal plan and section is intended to represent the principal features of a Colliery, and a mode of indicating them which might be generally adopted. The parts colored light brown are the horse roads or principal ways in the mine. Those colored blue are the water levels. Faults are indicated by red lines, varying in thickness according to the size of the throw; thus it will be seen in one place there is a fault with a throw of 6 inches gradually increasing to 10 feet. The line representing it is made thicker at the latter place accordingly.

Slip dykes are not generally very thick; their relative size in this respect may, however, be shown with sufficient accuracy even on the scale of this plan. The direction of these faults should be recorded in accordance with the course in which the working places in which they are met with are going; thus the 17 feet fault has been come to in the level driven from the shaft A to the north-east, and is therefore an up-throw in that direction. The 10 fathom dyke in the upper levels is also an up-throw to the north, though not in quite the same course; but as it has been met with in driving south-west, it is called a down-throw. This last named fault, it will be observed, has enabled the upper seam to be reached by a level drift which is shewn in the workings of the lower seam as far as the point of connection with the other seam. The plan of the workings in that seam should shew the same drift to an equal extent; or in other words, each plan should shew the full length of the drift from seam to seam. There is a staple or small shaft near the pit A to the upper seam, which should also be shewn on the plan of that seam. In the centre of the plan the pillars are supposed to be in course of removal behind the face of the whole workings; those shaded have been taken out, and represent a "goaf."

A band of fire clay is assumed to have made its appearance in the south west workings near the fault, and to be gradually thickening as they extend. Two sections are given to shew this alteration in