

rope, &c. Three boilers of 50 feet length and 3 feet diameter, to supply steam to both the engines. The underground equipment I propose to be equal at the outset to the pumping and hoisting from the depth of not less than 240 yards;—the power of these, with additional boilers, being estimated to be equal to the pumping and hoisting from the slope depth of 600 yards. The great length which the McGregor Vein occupies in the Fraser and Carmichael tracts alone (over 5,000 yards,) will render it necessary after some time; (in order to avail, even to a moderate extent, of its great capacity of production, and to meet the active demand which may be relied on for this coal;) to have an additional slope or slopes; but the pumping for such additional operations may still be done in the first slope.

To carry out these suggestions will be required :

Two steam engines, one for pumping, the other for hoisting, with the boilers for their joint supply of steam, as before described.

Pump-work, pipes, rods, &c., complete.

Winding apparatus, wire rope, &c., complete.

Coal cars for underground hauling, on the slope, and on the bank.

Railroads in the gangways, on the slope and on the bank.

Sinking slope.

Driving gangways, airways, &c.

Houses for overman and miners boarding house, carpenters' and smiths' shops, magazine, store-house, office, &c.

Tools—smiths', carpenters' and miners'.