

REPORT BY W. W. PALMER,
MINING CAPTAIN, BRUCE MINES.

BRUCE MINES, 8th January, 1850.

TO ARCH. H. CAMPBELL, ESQ.,
Manager, Bruce Mines.

SIR,—In accordance with your request, I lay before you my Report on the Bruce Mines, in the first place giving an abstract of the appearances and the produce of the several Bargains worked within and during the last four months, commencing at the eastern part of the Mine, with Stope No. 2 East, followed by a statement of the other mining operations performed in the same period ; and as a reference to both, I beg also to lay before you a copy of the vertical section of the working plan.

No. 2 EAST.—Running 12 fathoms east from Trial Shaft. The working of this bargain was suspended in September, there being at that time, already at the surface, more ore than we had the proper means of making merchantable. The Stope is 9 feet below the surface, where the lode is 4 feet 6 inches wide, and will produce about 4 tons of ore per fathom;* 40 feet deeper the Lode is 7 feet wide, and will produce from $5\frac{1}{2}$ to 6 tons per fathom, of ore yielding 20 per cent. of fine copper.

No. 2 WEST.—Running $9\frac{1}{2}$ fathoms west from Trial Shaft. Lode 3 feet wide ; Stope 14 feet below the surface ; produce during September, 1 ton 18 cwt. per fathom. October to November 3rd, 1 ton 12 cwt., and 2 tons 15 cwt. per fathom, and improving in depth. In November the men were put to secure the open cutting, and afterwards to get Trial Shaft into working order. The Stope was therefore suspended and has not since been worked.

No. 3 EAST.—Situated 21 fathoms N. E. from Trial Shaft, and worked on a branch of the main Lode, which "takes horse"

* In estimating the yield of the bargains, &c., it is understood that the tons are of 20 per cent. ore.