

SOUTH CROFTY LIMITED.

SOUTH CROFTY MINES,

CARN BREA,

28th March, 1918.

To the Secretary,

SOUTH CROFTY LIMITED.

DEAR SIR,

The property known as Castle-an-Dinas Wolfram Mine is situated on the Gossmor, and is about 3 miles distant from either St. Columb Road or Roche Stations on the Par-Newquay Railway. It is held on a lease of 21 years from the 29th September, 1916, granted by the Duchy of Cornwall.

The development carried out since the Mine was started in February, 1917, consists of one adit level which has been driven for a distance of approximately 975 feet and is now at its deepest point, about 120 feet from the surface. It is also connected to the surface by two air shafts which will later be used as winzes for stopping purposes. A second adit level has also been started from further down the hill, and been driven a distance of 750 feet, and has now reached a point some 25 to 30 feet beyond the mouth of the first adit level referred to. This level is 66 feet under the top adit, and is now connected to the latter by a winze sunk from the mouth of same, and this lower adit being on a level with the top of the grizzlies above the mill ore-bin, the ore from the whole of the underground workings can be trammed direct to the mill.

VALUES.—The ground developed above the level of the first or top adit level mentioned may be said to average quite 30 lbs. of Wolfram to the ton over a width of 3 feet, so that we have proved above this level at least 11,000 tons of ore of the value mentioned. In the lower adit the lode proved very poor over rather more than half the distance driven and may be considered only barely payable for a further 200 feet, but for the last 100 feet driven contains rather better values than those given for the level above, and I am strongly of opinion from the strength and appearance of the lode in this bottom level that we shall at least have a continuation of the values met with in the upper level over at least the next 950 feet of driving, which would so far give us an ore shoot of 1,000 feet in length.

PLANT.—A mill building has been erected, and the following plant installed:—

One new 56 H.P. Tangye Gas Engine with producer plant, rockbreaker, 2 combined conveyer and picking belts, 2 sets of crushing rolls for bringing the ore down to the necessary concentrating size, 2 elevators for elevating the ore from the said rolls to 2 sets of trommels for sizing purposes, 2 Hartz type jigging machines, 1 James concentrating table, and 1 Frue vanner, besides sundry mining appliances for handling the concentrates, &c. There is also a small office, miners' changing house, and blacksmiths' shop.

Crushing operations were commenced at the end of January this year, and up to the present time 400 tons of ore have been crushed for a yield of approximately 10 tons of Wolfram, 5 tons of which have already been sold and assayed 65 per cent. Tungstic Acid and .25 per cent. Tin. This yield would give you the impression of a much higher value than I have stated under the head of values, and this is explained by our having crushed some 5 or 6 tons of selected ore which we have collected from time to time in development work, but the yield of the average run of ore from development has been well up to the figure of the 30 lbs. stated.

Speaking of the property as a whole, I may say that I have been intimately connected with it from the start and have watched the development very closely, and the opinion I have come to is that it is by far the best purely Wolfram property in the County of Cornwall, and from the amount of work which we have already done, I consider the Mine has more than ordinary possibilities, and I have no hesitation in saying that there is sufficient Wolfram already in sight to remunerate the Company for the necessary capital expenditure in taking over.

FUTURE WORKING.—In order to complete the plant so that the same may be worked if necessary during the full 24 hours, sundry additions are required in the form of electric lighting equipment and sundry additional plant for the final treatment of the vanner concentrates and middlings, or dredgy products, and I estimate we should require to carry out this work and to give us an ordinary working stock of timber and materials, a further outlay of approximately £2,500.

Yours faithfully,

JOSIAH PAULL.