

out by practical workings and discoveries during the past year.

The enclosed plan has been kindly furnished by Mr. B. C. Wilson, machinist and mining engineer, who has been extensively occupied at Waverley during the past season.

Operations for the search of the "South Tudor" commenced late in the fall of 1868, near the road marked on the plan, 770 feet from the point where the lead was lost. At the date of Mr. Wilson's letter it had been traced backwards to area 201, through a distance of eleven hundred feet.

The mean difference between the ascertained outcrop of the lead and the theoretical outcrop, given on the plan in your office, is 25 feet 9 inches over a distance of 1100 feet. When both theoretical and actual outcrops are reduced to the same level, the mean difference is considerably less.

The mean difference between the theoretical and actual outcrops of the North lead, over a space of nine hundred feet, is 25 feet 7 inches.

The rocks throughout these distances of 1100 and 900 feet, are deeply covered with boulder drift, and of uneven surface, so that I may reasonably claim a much closer approximation between theory and fact, than a mean difference in outcrop of 25 feet 8 inches over a space of two thousand feet.

The accompanying plan is a copy of a portion of the plan in your office. The black dotted lines represent the probable outcrop I assigned to the leads in October, 1868. The red lines show, according to Mr. Wilson's survey, the actual outcrop discovered up to January, 1870. Enclosed is a copy of Mr. Wilson's letter.

I have the honor to be,

Your obedient servant,

HENRY Y. HIND.

WAVERLEY GOLD FIELDS,
8th January, 1870.

HENRY Y. HIND, Esq.,

Dear Sir,—

In reply to your favor of 27th December, I beg to say that I have examined the formation as developed in Mr. Burkner's workings on the south dip, and around the curve of what is unquestionably the Tudor lode, and accompanying please find a plan which will illustrate the course with the openings thereon.