

## THE COVE MARINE BANDS

SIR,—In Text-figure 1 of Mr. H. H. Wilson's paper (*Geol. Mag.*, lxxxix, p. 305) his generalized stratigraphical columns for Berwick-on-Tweed and Redesdale are obviously copied from those published on One-inch Geological Maps Sheets Nos. 2 and 8, respectively. In his Redesdale column, Mr. Wilson replaces the Fourlaws Limestone of the map section with his Redesdale Limestone and omits 150 feet of strata and the Redesdale Limestone beneath the Fourlaws Limestone. I seek his explanation for the above omission, for he makes no mention of the Fourlaws Limestone or its underlying 150 feet of strata in his paper.

Mr. Wilson correlates the Redesdale Limestone and the Redesdale Ironstone Shales with the Woodend and Dun Limestones, respectively. In maintaining that the Fourlaws and Redesdale Limestones, 150 feet apart, do exist, I still support the view that these are the equivalents of the Woodend and Dun Limestones of Berwick, respectively.

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22nd October, 1952.

## MALVERN TECTONICS

SIR,—In the second argument he uses in his recent letter (*Geo. Mag.*, 1952, p. 384) Mr. T. Whitworth states that the Malverns have been a *line* (the italics are mine) of re-current disturbance through very long periods of geological time, and he immediately cites "the nature and physical conditions of the Pre-Cambrian rocks" as confirming their lengthy and complex history, and therefore by inference extends the linear nature of the Malvern Range back into Pre-Cambrian time. He also quotes the unconformable nature of the Cambrian, and of the Silurian, as supporting facts. The available evidence, however, does not prove the apparent linearity we see to-day to be any older than the movements which overturned the Old Red and the Silurian, and even this appearance may be partly due to the one-sided nature of the exposures. The complexity of the Pre-Cambrian is not confined to the Malverns, nor is unconformable Cambrian and the absence of Ordovician.

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19th November, 1952.