

## LETTERS TO THE EDITOR.

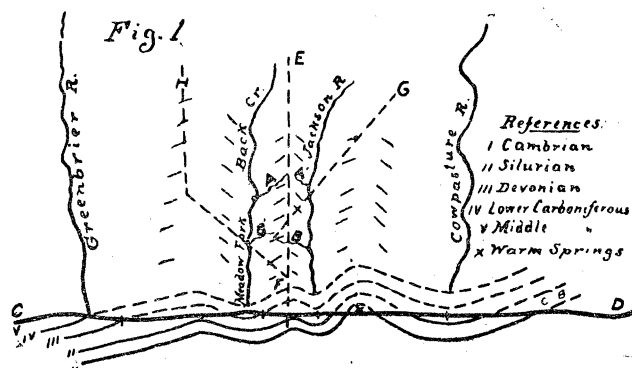
\*Correspondents are requested to be as brief as possible. The writer's name is in all cases required as a proof of good faith.

On request in advance, one hundred copies of the number containing his communication will be furnished free to any correspondent.

The editor will be glad to publish any queries consonant with the character of the journal.

## A RECAPTURE FROM A RIVER PIRATE.

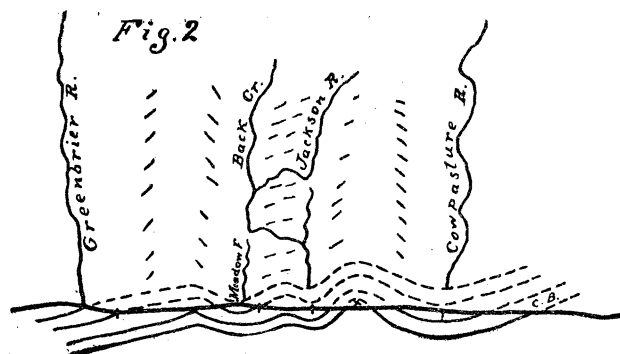
THE Jackson River of Bath and Alleghany counties, Virginia, affords an interesting example of recapture of a



portion of a stream from "a river pirate." Last winter I directed the attention of Messrs. Charles Baskerville and R. H. Mitchell, students of the University of North Carolina, to the interesting problem of adjustment presented by this stream. A result of their investigation is given in the accompanying sketch maps.

Fig. 2 presents a map of the stream in its present relations, and a geological section of the country. In fig. 1 we have the streams at the beginning of their existence, just after the great permian deformation, occupying synclines upon the carboniferous rocks. The permian topog-

raphy is represented by the dotted lines, the existing topography by the line C D. It is evident that in permian time Back Creek and Meadow Fork made a continuous stream, occupying a synclinal valley. The first capture was that of the headwaters of Jackson River by



tributary A of Back Creek, as the folds of permian time were higher to the east and died away westwardly. At a later date, probably at the time of the cretaceous tilting, when the hills sloping east became steeper, tributary B, of Jackson River, beheaded the pirate and recaptured her own waters.

Chapel Hill, N. C.

COLLIER COBB.

## THE TIN ORES OF NEW SOUTH WALES AND SOUTH DAKOTA.

THE similarity of occurrence and of mineral aggregation of the tin ores of New South Wales and those of the Black Hills, South Dakota, is worthy of mention. The ores of both regions are extensively shown in the Mines and Mining Building, Chicago Exposition, and it would be difficult, if not impossible, for an ordinary observer to separate them according to locality if they should become mingled. The ores of both places occur in veins of the granitic type.

WM. P. BLAKE.

Shullsburg, Wis., Sept. 11, 1893.

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For Exchange.—Books and pamphlets on geology, ornithology, conchology, and entomology. State what line and I will send list. I can also supply any locality, and literature on this group. M. J. Elrod, Ill. Wes. Univ., Bloomington, Ill.

For a rare chance to get a first-class microscopical outfit write for full particulars to box 125, Sellersville, Bucks Co., Pa.

For sale or exchange.—A fine collection of Lepidoptera, native and exotic. For particulars address J. C. Ellsworth, 114 Madison St., N. Y. care Republican.

For sale or exchange for works on entomology, Wollé's "Desmids of the U.S.," Hentz "Spiders of the U.S.," The Amer. Entomologist & Botanist, Vol. 2, The Amer. Entomologist, Vol. 1, Harris's "Insects Injurious to Agriculture," colored plates, copy formerly owned by Thomas Glover, C. Dwight Marsh, Ripon, Wis.

"The Conchologist: a Journal of Malacology," Vols. 1 and 2, with wood cuts and plates, value \$1.00, will exchange for any work or plates on Malacology. American Slugs or Anatomy of American Fishes. W. E. Collinge, Mason College, Birmingham, England.

## Wants.

**WANTED.**—A copy of Mascart & Joubert's Lessons in Electricity and Magnetism, Vol. I. Address R. W. Clawson, Vanderbilt University, Nashville, Tennessee.

**CHEMIST.**—Graduate of a polytechnical school, and studied photographic chemistry in Germany and Austria. Will teach or in analytical or experimental laboratory. M. B. Punnett, Rochester, N. Y.

**WANTED.**—A recent college graduate to assist in editorial work on Science. Those seeking large emoluments need not apply. N. D. C. Hodges, 874 Broadway, New York.

**A GRADUATE** in medicine, experienced, will prepare or revise scientific and medical manuscripts, read proof, compile bibliography, etc. Will also consult New York libraries for persons out of town wishing references to rare books. Address M. D., 104 Cambridge Place, Brooklyn, N. Y.

**FOR SALE.**—Volumes V. and VI. of the "Explorations for a Railroad Route from the Mississippi River to the Pacific," 1857, half calf, in good condition. A large number of colored and uncolored plates of Mammals, Birds, Fish, etc., etc. On receipt of \$7.00 will send to any ordinary point in the U. S., express paid. These volumes are now rare. Address Dr. Shufeldt, Takoma Park, Dist. of Columbia.

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