GEOLOGICAL SURVEY OF CANADA.

Farther trials and alterations.

smoke, and keeps her steam well."

Success.

Use of Newcastle coal in the Navy.

Necessity for steam and smoke-trials of our coals. use.

of the elass under eonsideration, and it ean be elearly proved, that, if properly burnt, they are at least as economical, as smokeless, and as easily stoked as any other elass of coals. The experiments above quoted, in connection with Government trials made at Devonport, already mentioned, have produced a material change of opinion with regard to Newcastle coal, and it has now taken a position second to none, among coals for the Navy, where it is chiefly used in admixture with Welsh coal, and the testimony of the very highest authority, is that a very large saving has already been effected by its

A proper discussion of the rationale of these experiments, and of

their importance to our coal-trade, must be postponed to some future

occasion. Much more might be said in favour of the use of steam-eoals

It is hoped that enough has already been said to eall the attention of our eoal-owners and eonsumers to the urgent necessity of practical trials of a similar character to those above mentioned. Such experiments could be carried out at a very trifling cost, on any steamers, without interfering with their regular voyages; and though the great results of the North Country experiments might not be obtained, still, a great addition would be made to our knowledge of the coals, and that a very material improvement in the matter of steam and smoke would be made, cannot be doubted.

I shall close these remarks, which have already exceeded the length originally assigned to them, by an extract from a eireular of the Coal Trade Association of Newcastle-on-Tyne, just received from Mr. Benning. It is of interest as showing the results of the very latest trials.

RESULT OF EXPERIMENTS AT PORTSMOUTH, 1869-70.

Experiments at Portsmouth 1869-70. "A very comprehensive series of experimental trials have been carried out during the past twelve months on board Her Majesty's steamers "Urgent" and "Lucifer," at Portsmouth, with Welsh and Northfun lat Po

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