

CHEMICAL CONTRIBUTIONS

TO THE

GEOLOGY OF CANADA,

BY

CHRISTIAN HOFFMANN,

ADDRESSED TO

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DIRECTOR OF THE GEOLOGICAL SURVEY OF CANADA.

ON CANADIAN GRAPHITE.

SIR,—I have the honour of herewith submitting to you the results of an investigation into Canadian graphite, undertaken with the object of determining, as far as possible, experimentally the relative value of Canadian graphite, as compared with that from Ceylon, for the manufacture of black-lead crucibles.

Object of the investigation.

The first four analyses here given appeared in my last report; as, however, they are intimately connected with some contained in the present one, it has been thought desirable to incorporate them in this latter.

BRIEF OUTLINE OF SOME OF THE METHODS EMPLOYED IN THE PROSECUTION OF THIS INVESTIGATION.

1. *Determination of the Specific Gravity.*—Sufficient water having been introduced into the specific gravity bottle to thoroughly immerse the specimen of graphite therein contained, the whole was placed under the receiver of an air-pump, and exhaustion gradually proceeded with. The pumping was repeated at intervals, and until bubbles ceased to escape on further exhaustion. The bottle was then removed, and the necessary adjustments having been made, weighed; after which, a portion of the

Methods employed in the investigation.