## GEOLOGICAL SURVEY OF CANADA

3.—Carbonaceous shale. From the shore of Tagish lake, about forty miles southeast of Dugdale station on the line of the White Pass and Yukon railway, Ykn.

A greyish-black, lustrous, slickensided, carbonaceous shale. It contained 11-234 per cent of fixed carbon.

4.-Ferruginous shale. From Oak mountain, Carleton co., N.B.

A specimen of a reddish-brown, argillaceous shale, traversed by an occasional thin seam of quartz, frem this locality, was found to contain--16.50 per cent of ferric oxide, equivalent to 11.55 per cent of metallic iron.

5.—Graphitic shale. From an occurrence of this material on the farms of Mr. Donald McInnis and Mr. McSween, on Big brook, near West Bay Road station, Inverness, co., N.S., about half a mile from the railway.

Three samples of the material from this locality, where it is wet with in the Lower Carboniferous, have been examined by Mr. Wait and found to contain, respectively,-26.59, 31.57, and 35.53, per ceut of graphitic carbon.

6.—Molybdenite. From one of the veins constituting what is known as the Tamarac group on Gnawed mountain, Yale dist., B.C.

The material received for examination consisted of a white subtranslucent quartz traversed by thin veinings of molybelenite and holding a very small quantity of chalcopyrite. A fair average sample of the particular specimen sent was found by Mr. Wait to contain, approximately, 7 per cent of molybelenite.

7.—Silt. A very fine-grained, compacted, yet readily friable, somewhat argillaceous, siliceous silt, has been found, forming a bed immediately overlying a bed of arenaceous clay, at a point some ten or twolve miles west of Desbarats, Algoma dist., Ont.

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